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Irvine, CA 92618-2215
USA

DTC1000 DTC4000 DTC4500
CARD PRINTER
SERVICE MANUAL

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Introduction

The service manual serves to inform the technician about the DTC1000-4000-4500 Card Printer & Dual-Sided Printing Module & Lamination Module parts replacement procedures.

Important: These procedures can only be performed by authorized service personnel.
Estimated repair time may vary according to technicians experience.



Caution: Turn OFF the Printer and unplug the power cord from the Printer.
ESD precautions are necessary when handling electronics assemblies



Danger: Wear proper eye protection to perform the procedures in this section.

Safety Messages (review carefully)

The purpose of this section is to provide the User with specific replacement procedures for the Card Printer. Please review standard precautions (to take) while performing these replacement procedures.

Symbol	Critical Instructions for Safety purposes
Danger: 	Failure to follow these installation guidelines can result in death or serious injury. Information that raises potential safety issues is indicated by a warning symbol (as shown to the left). • To prevent personal injury, refer to the following safety messages before performing an operation preceded by this symbol. • To prevent personal injury, always remove the power cord prior to performing repair procedures, unless otherwise specified. • To prevent personal injury, make sure only authorized service personnel perform these procedures.
Caution: 	This device is electrostatically sensitive. It can be damaged if exposed to static electricity discharges. Information that raises potential electrostatic safety issues is indicated by a warning symbol (as shown to the left). • To prevent equipment or media damage, refer to the following safety messages before performing an operation preceded by this symbol. • To prevent equipment or media damage, observe all established Electrostatic Discharge (ESD) procedures while handling cables in or near the Circuit Board and Printhead Assemblies • To prevent equipment or media damage, always wear an appropriate personal grounding device (e.g., a high quality wrist strap grounded to avoid potential damage). • To prevent equipment or media damage, always remove the Ribbon and Cards from the Printer before making any repairs, unless otherwise specified. • To prevent equipment or media damage, take jewelry off of fingers and hands, as well as thoroughly clean hands to remove oil and debris before working on the Printer.

Tools need for DTC1000/4000/4500 Card Printer repair- replacement procedures

T10 Torx screwdriver

E Clip tool

Small flathead screwdriver

Needle Nose Pliers

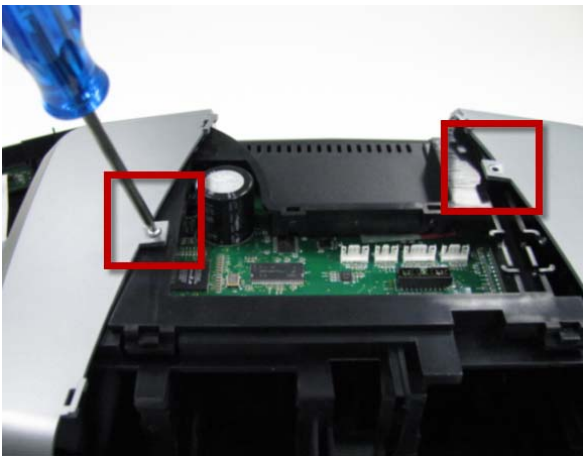
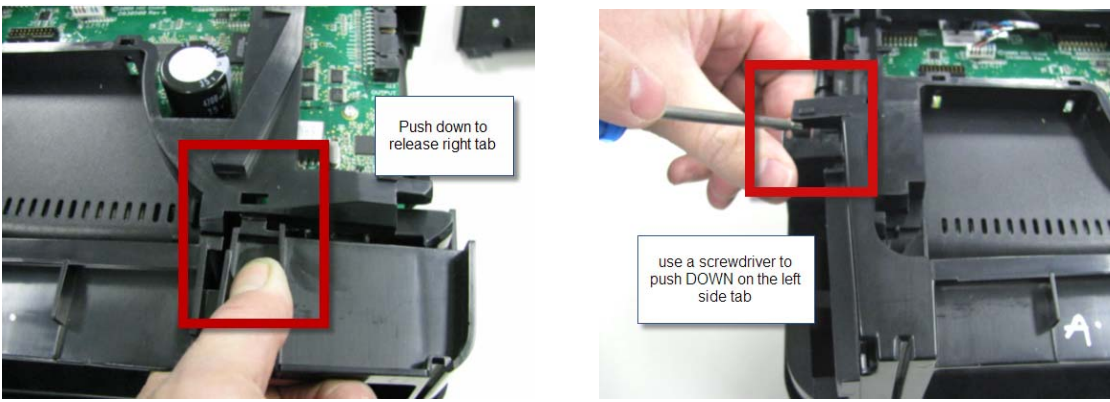
(NOTE:HID Global offers a kit that contains all of the tools needed to repair the printers.
Part Number 085627)

Cover Removal Procedures

Remove/Replace Printer Covers DTC1000 Single Side

		Tools needed: T10 Torx screwdriver Estimated Repair Time: 15 minutes Preparation: Important: This procedure can only be performed by authorized service personnel. Top Cover/PCB Assy D930034-01 Front Door D930265-01 Left Cover D930263-01 Right Cover D930264-01 Output Bin D930269-01
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Open the front door. Locate and remove the 2 screws. (F000178) 	
3	Lift up the top cover and disconnect the display cable (D930607) from the mainboard. Remove the top cover by flexing the center to disengage the insert tabs.	



4	Remove the 2 screws(F000178) that hold the side covers to the frame. 
5	Remove both side covers. The input and output hoppers are attached to the side covers.
6	Remove the outer back cover by releasing the tabs on the right and left side.  Tilt cover down to release the bottom tabs.
7	Remove the 2 screws on the bottom right and left side to remove the inner back cover. 

	Left side	Right side
8	Lift UP the bottom of this cover to release the upper tabs that hold the cover to the frame.  A photograph showing a black plastic cover being lifted from a device. A hand is visible on the left, holding the bottom edge of the cover. The cover is being lifted upwards, revealing the internal components of the device, which include a green printed circuit board (PCB) with various electronic components and a silver-colored metal frame. The cover has a hinged design with tabs that hold it in place.	
9	Procedure is complete.	

DTC4000 - DTC1000 Dual-Sided Printing Module Removal

DTC4000



DTC1000 Dual



If the Dual-Sided Printing Module needs to be removed for any Printer Replacement procedures or to remove the covers follow this procedure.



DTC4000 shown in the example below.

Tools needed: T10 Torx screwdriver

Estimated Repair Time: 15 minutes

Preparation:

Important: This procedure can only be performed by authorized service personnel.

Top Cover

D930192-01 used in
DTC4000/DTC4500- Black

Top Cover

D930192-02 used in DTC1000-Silver

Flipper Front Door

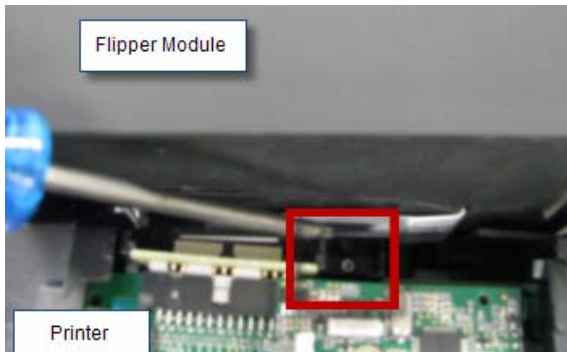
D930194-01 used in
DTC1000/4000/4500-Gray

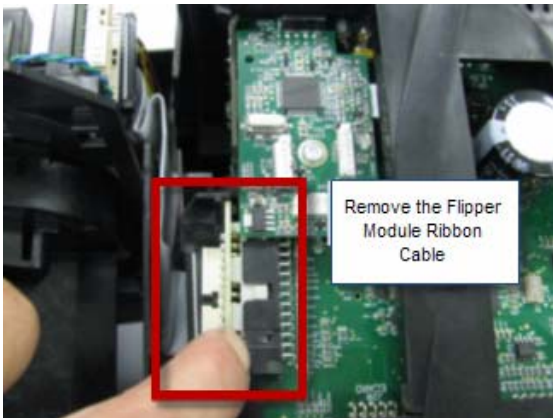
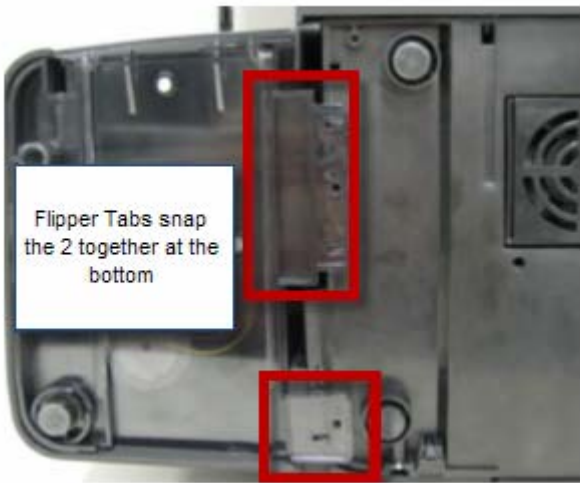
Card Bin Cover

D930193-01 used in DTC4000/4500 &
Flipper TALL- Black

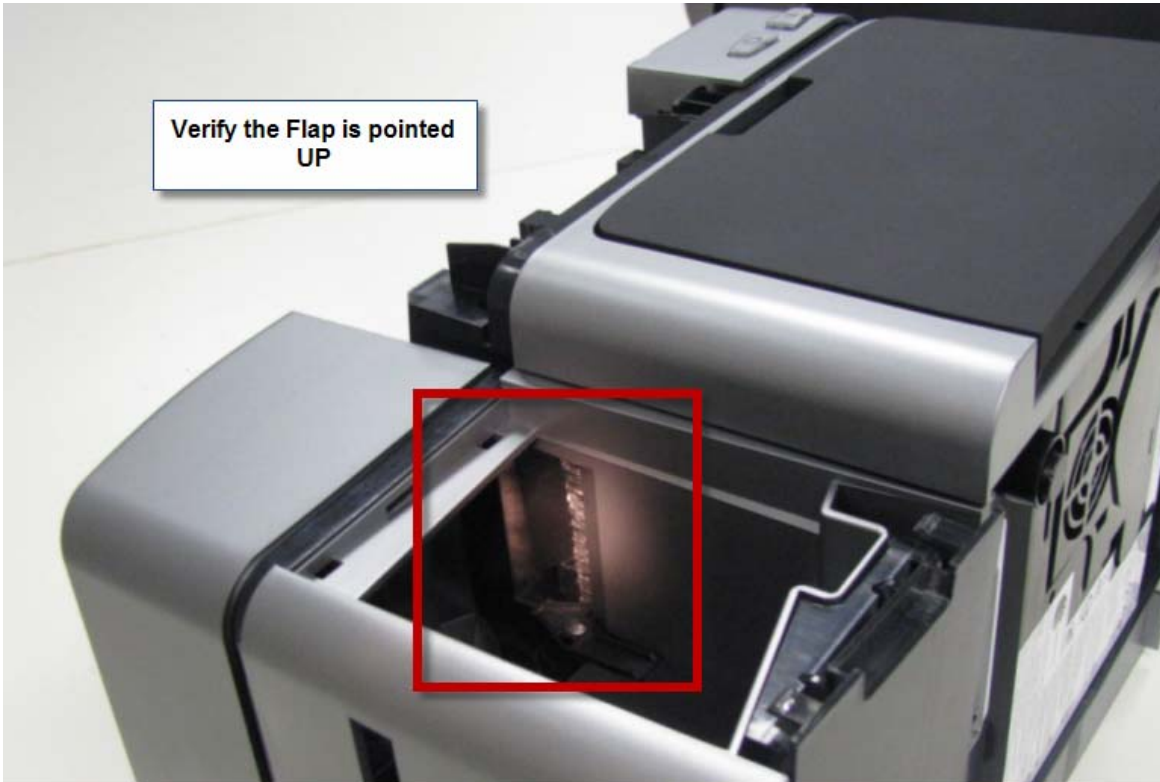
Card Bin Cover

D930193-02 used in DTC1000-Silver

Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Top Cover first in order to get to the Dual-Sided Printing Module screw attachment. Remove the two screws that hold the TOP Cover in place. 
3	Lift up the top cover from the front first then the back. Remove and set aside. 
4	Remove the one (1) screw that attaches the Dual-Sided Printing Module to the Printer. 

5	Remove the Dual-Sided Printing Module ribbon cable from the board contact. 
6	Turn the printer over and un-snap the TABS that hold the Dual-Sided Printing Module to the Printer. Your printer may or may not have these screws depending on the serial number. 

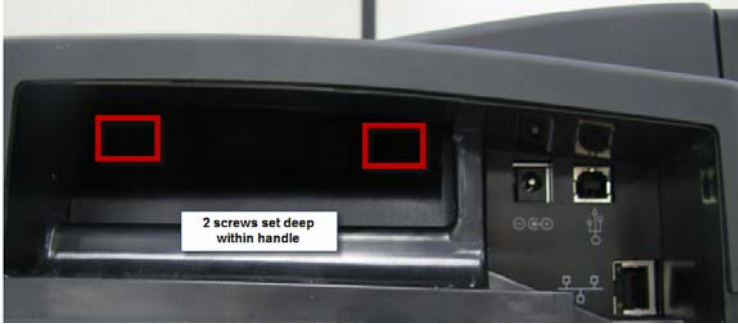
7	Remove the Dual-Sided Printing Module. Tilt back to release the modules. 
8	IMPORTANT NOTE ON THE INITIAL RELEASE OF THE PRINTER/DUAL-SIDED PRINTING MODULE FOR DTC1000 OR DTC4000 CARD PRINTERS.
9	When replacing the Dual-Sided Printing Module check to see if the Printer has this FLAP directly above the Static Brush. 

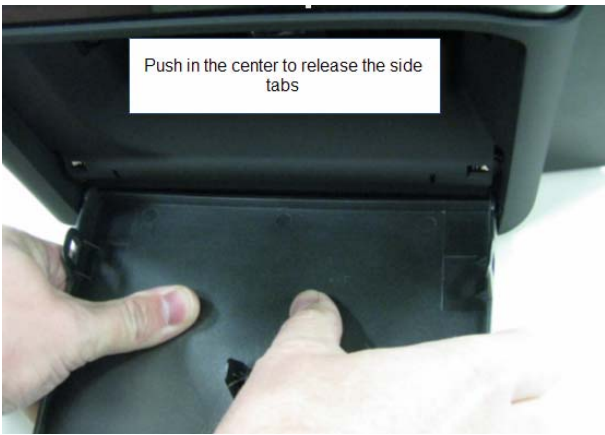
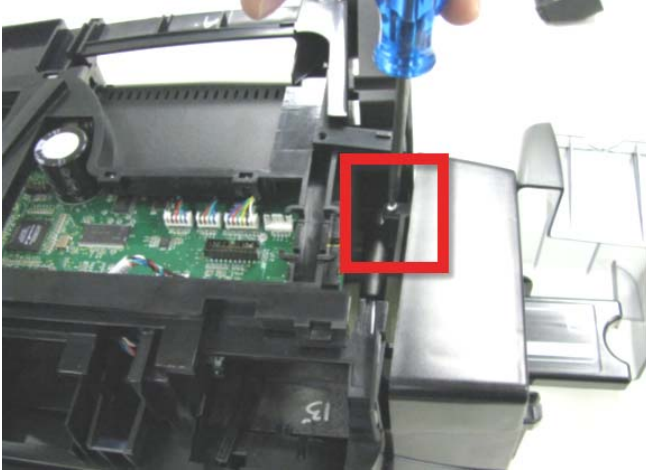
10	If your printer has this FLAP then extra care must be taken when attaching the Dual-Sided Printing Module back to the Printer. To reattach the Dual-Sided Printing Module to the Printer, start from the bottom then tilt up to connect the Ribbon Cable to the PCB. 
11	Verify that the FLAP is pointed UP and it is not folded down into the card path. Doing so will cause a card traveling issue between the two.  Printer is shown tipped back and light shone in to show FLAP position.

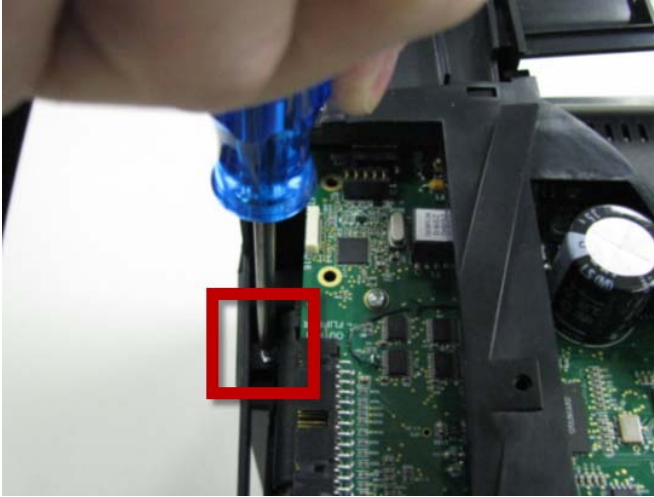
DTC1000 DUAL - DTC4000 Printer Cover Removal

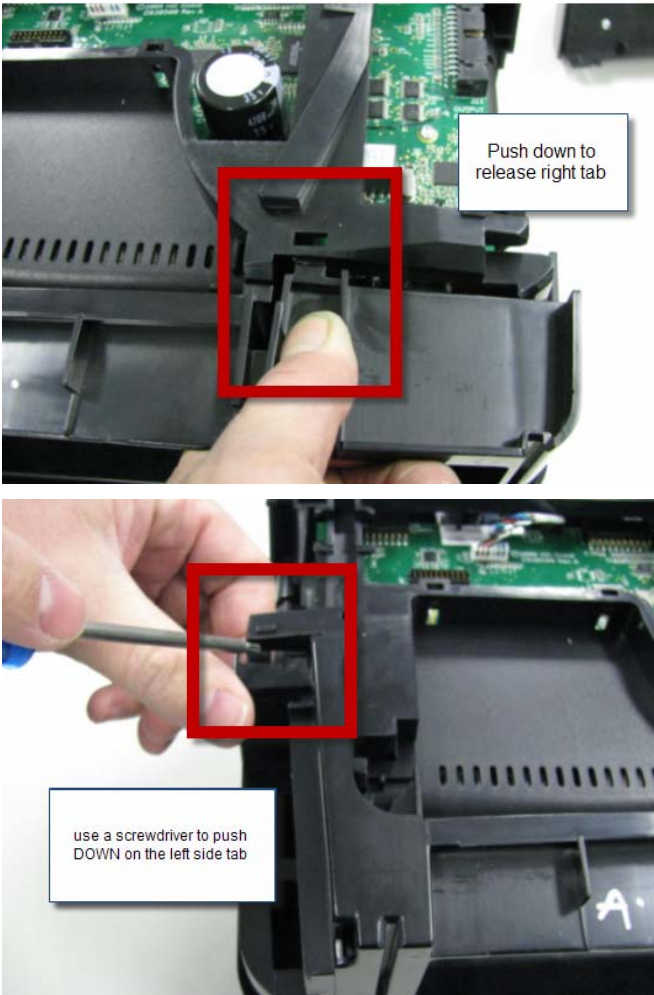
(NOTE: Use this procedure for removing the covers of the DTC1000 DUAL & DTC4000 printer cover AFTER the Dual-Sided Printing Module has been removed.)

DTC1000 DUAL  DTC4000 shown in the example below. 		Tools needed: T10 Torx screwdriver Estimated Repair Time: 15 minutes Preparation: Important: This procedure can only be performed by authorized service personnel. <table><thead><tr><th></th><th>DTC1000 DUAL</th><th>DTC4000</th></tr></thead><tbody><tr><td>Top Cover</td><td>D930181-02</td><td>D930181-01</td></tr><tr><td>Front Door</td><td>D930183-01</td><td>D930183-02</td></tr><tr><td>Output Cover</td><td>N/A</td><td>D930281-01</td></tr><tr><td>Display Cover</td><td>D930189-02</td><td>D930189-01</td></tr><tr><td>Display Cover/PCB</td><td>D930017</td><td>D930018</td></tr><tr><td>Output Bin</td><td></td><td>D930333</td></tr></tbody></table>		DTC1000 DUAL	DTC4000	Top Cover	D930181-02	D930181-01	Front Door	D930183-01	D930183-02	Output Cover	N/A	D930281-01	Display Cover	D930189-02	D930189-01	Display Cover/PCB	D930017	D930018	Output Bin		D930333
	DTC1000 DUAL	DTC4000																					
Top Cover	D930181-02	D930181-01																					
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Display Cover	D930189-02	D930189-01																					
Display Cover/PCB	D930017	D930018																					
Output Bin		D930333																					
Step	Procedure																						
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.																						

2	From the back of the printer locate and remove the 2 screws. (F000178) 
3	Lift up the top cover from the front first then the back. Remove and set aside. 
4	Unsnap the display by pivoting from the top DOWN to release the bottom tabs. Remove the ribbon cable from the mainboard. 

5	Remove the front door but pushing the center down to release the side tabs. 
6	Remove the screw holding the card input hopper to the frame. 
7	Remove the input hopper by tilting back and away from the frame. There are tabs at the bottom that hold the hopper to the frame. 

8	Remove the screw that holds the output cover in place. 
9	Tilt down and remove the output side cover. 
10	Remove the display cover by tilting from the top DOWN. This will unsnap the bottom tabs holding it to the frame.

	
11	Remove the outer back cover by releasing the tabs on the right and left side.  Tilt cover down to release the bottom tabs.
12	Remove the 2 screws on the bottom right and left side to remove the inner back cover.

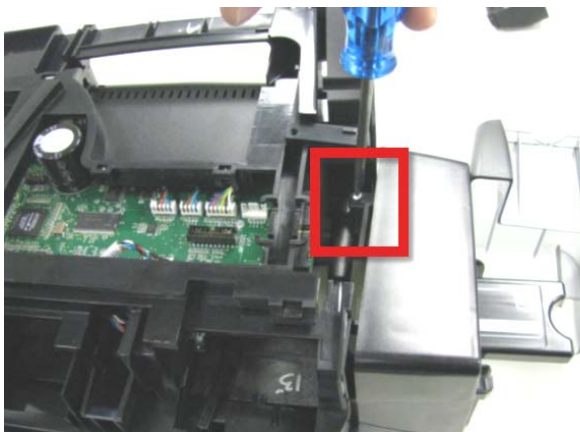
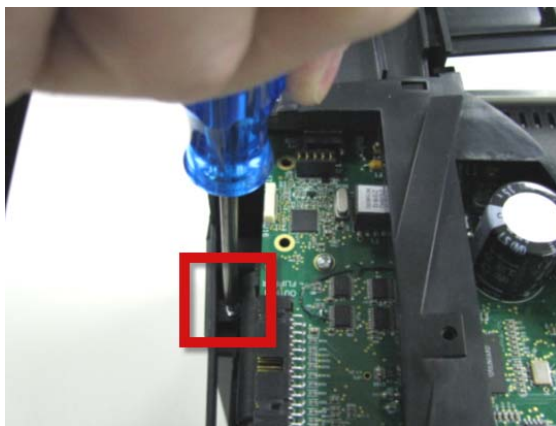


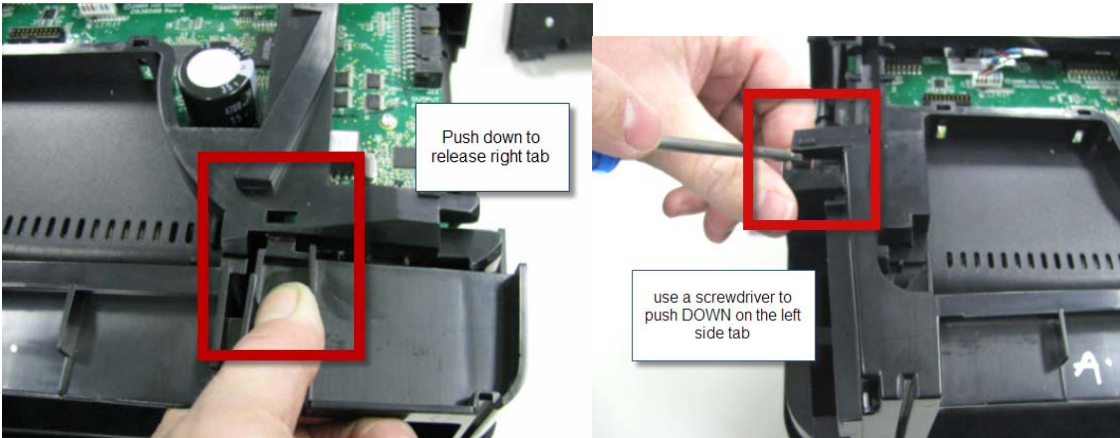
13	Lift UP the bottom of this cover to release the upper tabs that hold the cover to the frame. 
14	Procedure complete.  DTC4000 Printer with covers removed.
15	Reverse assembly instructions for replacing the covers.

DTC4500 Single Side Printer Cover Removal

 DTC4500		Tools needed: T10 Torx screwdriver Estimated Repair Time: 15 minutes Preparation: Important: This procedure can only be performed by authorized service personnel. <table><tr><td>Top Cover</td><td>D930181-01</td></tr><tr><td>Display Cover/PCB</td><td>D930018</td></tr><tr><td>Display Cover-Blank</td><td>D930189-01</td></tr><tr><td>Output Cover</td><td>D930281-01</td></tr><tr><td>Cartridge-Handle</td><td>D930020</td></tr></table>	Top Cover	D930181-01	Display Cover/PCB	D930018	Display Cover-Blank	D930189-01	Output Cover	D930281-01	Cartridge-Handle	D930020
Top Cover	D930181-01											
Display Cover/PCB	D930018											
Display Cover-Blank	D930189-01											
Output Cover	D930281-01											
Cartridge-Handle	D930020											
Step	Procedure											
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.											
2	Remove the card output hopper. Squeeze in from the top to unlatch the tabs. 											

2	From the back of the printer locate and remove the 2 screws. (F000178) 
3	Lift up the top cover from the front first then the back. Remove and set aside. 
4	NOTE: In some cases you may need to remove the Display. Unsnap the display by pivoting from the top DOWN to release the bottom tabs. Remove the ribbon cable from the mainboard. 

5	Open the front door
6	Remove the screw holding the card input hopper to the frame. 
7	Remove the input hopper by tilting back and away from the frame. There are tabs at the bottom that hold the hopper to the frame. 
8	Remove the screw that holds the output cover in place. 

9	Tilt down and remove the output side cover. 
10	Remove the display cover by tilting from the top DOWN. This will unsnap the bottom tabs holding it to the frame. 
11	Remove the outer back cover by releasing the tabs on the right and left side.  Tilt cover down to release the bottom tabs.

12	Remove the 2 screws on the bottom right and left side to remove the inner back cover.  Right Side Left Side
13	Lift UP the bottom of this cover to release the upper tabs that hold the cover to the frame. 
14	Procedure complete.  DTC4500 Printer with covers removed.

15	Reverse assembly instructions for replacing the covers.
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DTC4500 Lamination Module Cover Removal

NOTE: Remove the Lamination Module prior to removing the printer covers if repairing the PRINTER. The Lamination Module does not need to be removed in order to repair the Lamination Module (unless replacing the Lamination Mainboard).



Tools needed: T10 Torx screwdriver

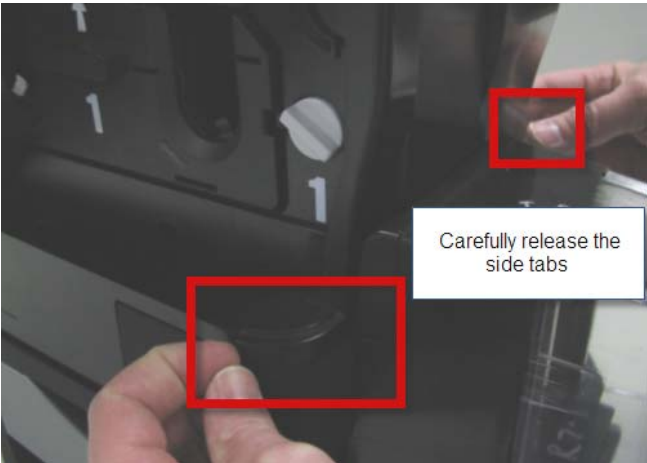
Estimated Repair Time: 15 minutes

Preparation:

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the card output bin (D930296) . 
3	Lift up from the bottom to release and remove the Input Bump Cover (D930292)



4	Lift up the Top Cover (D930294) to unsnap it from the module.  A close-up photograph showing a hand lifting a black plastic top cover from a device. The cover is being pulled away from the main unit.
5	Unsnap to loosen the 2 side tabs located on either side of the Lam Input Cover (D930290) (It is not necessary to remove the Lam Input assembly to remove this front plate.)  A close-up photograph of the Lam Input Cover. Two red rectangular boxes highlight the side tabs being released. A text box with the instruction "Carefully release the side tabs" is overlaid on the image. The number "1" is visible on the cover.
6	Tilt the Lam Input Cover outward and slide UP to remove.  A photograph showing the Lam Input Cover being tilted outward and slid upwards. The number "2" is visible on the cover, and the number "1" is visible on the device below it.

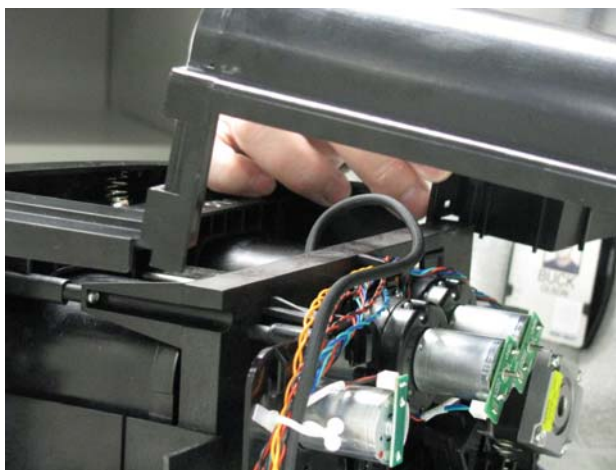
7

Unsnap the Lam Back Cover (D930293) side panel from the bottom and lift up to remove.



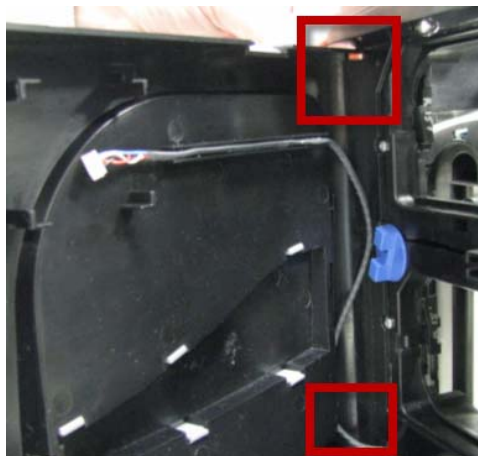
8

Carefully unsnap the Lam Back Cover panel from the top frame. Make note of the latches holding these together when replacing it.



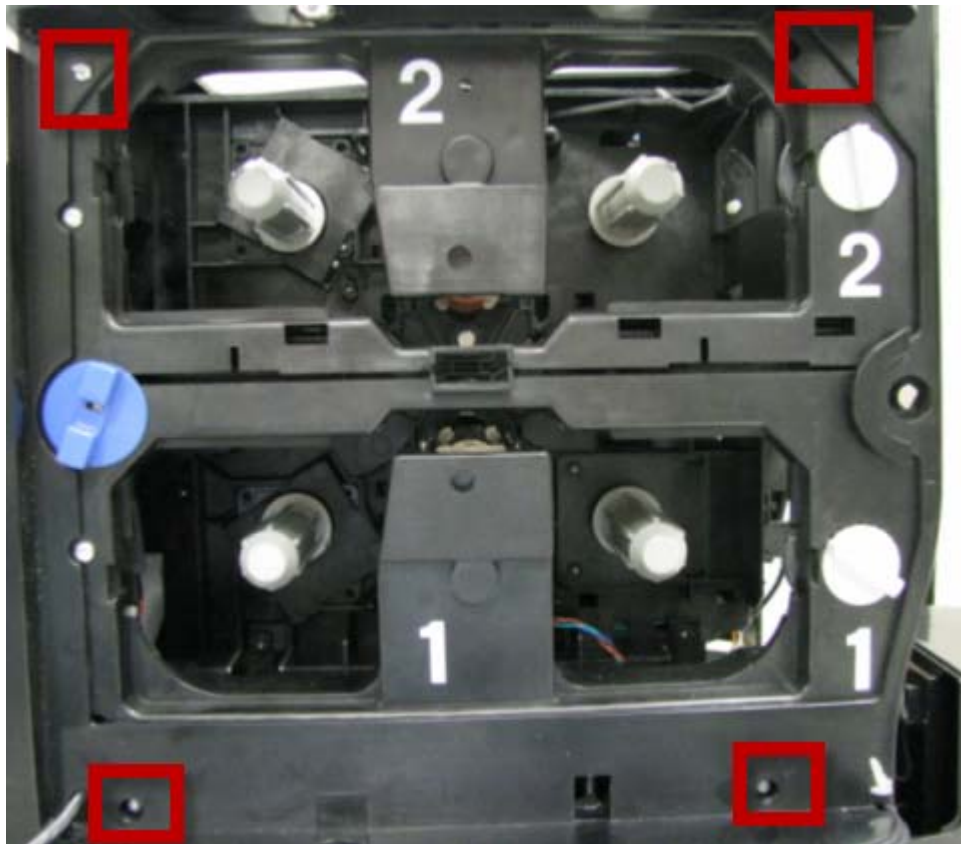
9

Remove the Front Lam Door Cover (D930291) by flexing the door IN, this releases the top and bottom pins holding the door to the frame.



10

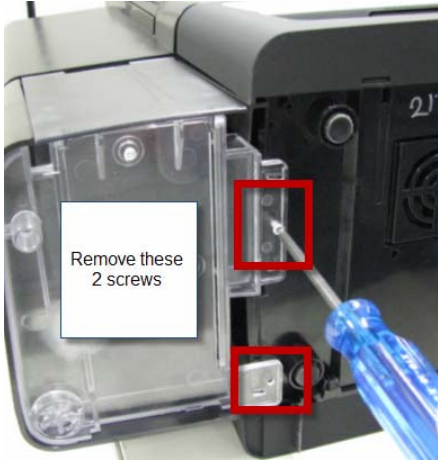
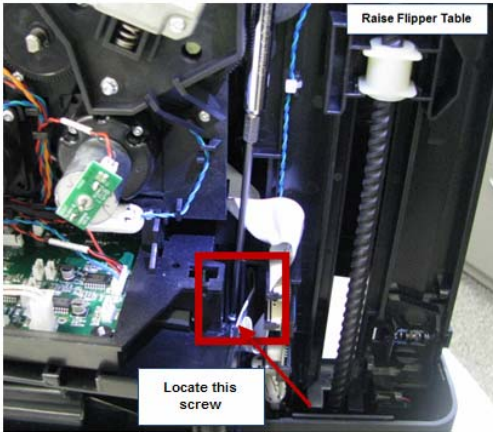
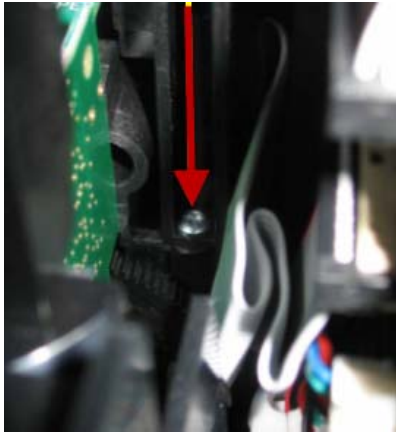
Remove the 4 screws that hold the Front Lam Cover (D930289) to the frame.



11

Procedure complete

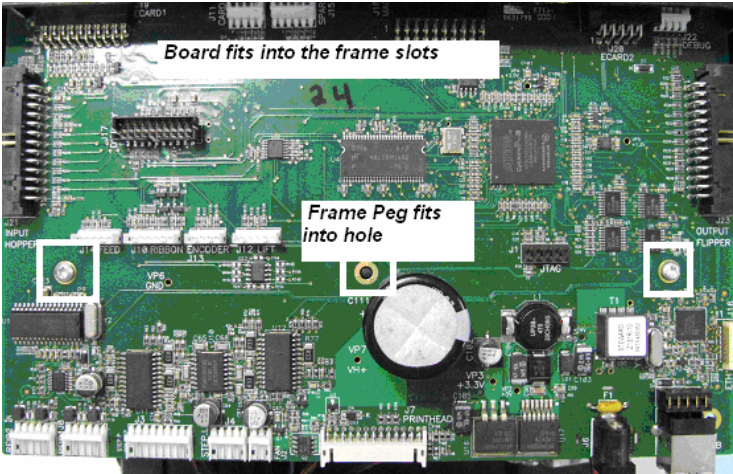
Complete Lamination Module Removal

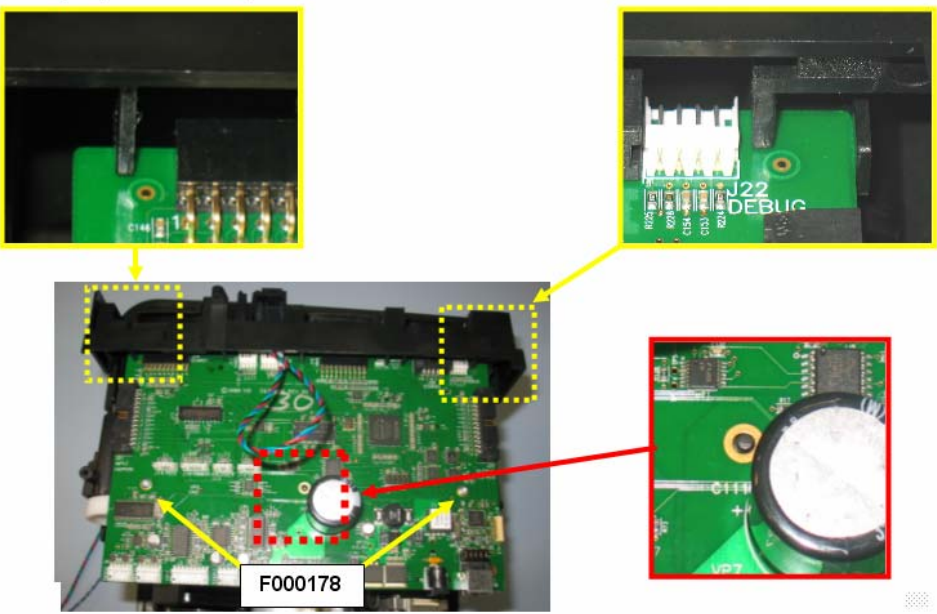
1	If the Lamination Module needs to be removed from the printer completely then turn the printer over and unscrew the 2 screws that attach the Lamination Module to the printer. 
2	One (1) screw (F000178) holds the Lamination Module to the Printer. (TIP: Use a flashlight and magnetized screwdriver)   Close up of screw location
3	Set the printer upright and move to the edge of the table. Unclip the tabs from below and move the module outward. This will release the PCB connection within the door. Note: When replacing the module carefully line up the PCB connection, push the module onto the printer base to connect the PCB. Do not force or bend pins.

	
4	Procedure is complete. Reverse assembly to reinstall the Lamination Module.

Parts Replacement- Printer

Remove/Replace the Mainboard (D930500)

		Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel. DTC1000 D930500-03 DTC4000 D930500-02 DTC4500 D930500-01
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove the covers to access the mainboard. Remove all the wire connections from the Mainboard.	
3	Remove the 2 screws (F000178) shown. The center open hole is for the frame peg. 	

4	Slide board out.  The diagram illustrates the process of removing a circuit board. The main image shows the board being pulled out of a black plastic housing. A yellow dashed box highlights the top edge of the board, which is connected to the housing. A red dashed box highlights a circular component on the board, which is labeled 'VPT'. A yellow arrow points from this component to a red-bordered inset image on the right, which shows a close-up of the component. Another yellow arrow points from the top edge of the board to a yellow-bordered inset image at the top left, which shows a close-up of the board's edge connector. A third yellow-bordered inset image at the top right shows a close-up of a header labeled 'J22 DEBUG'.
5	Install new board and reconnect all wires. Wires are labeled for location connection.
6	Procedure is complete.

Remove/Replace the LCD Display Assembly (D930507)

The same procedure is used for either orientation of the LCD Display.



Tools needed: T10 Torx screwdriver

Estimated Repair Time: 15 min

Preparation: Remove Top Cover

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the top cover of the printer.
3	Pull forward on the display to un-snap from the bottom of the display. Lift out to remove.
4	Remove the ribbon cable (D930607) from the LCD PCB.
5	Install completed assembly. Do not pinch the cable when replacing. Pull cable taught when replacing.
6	Procedure is complete.

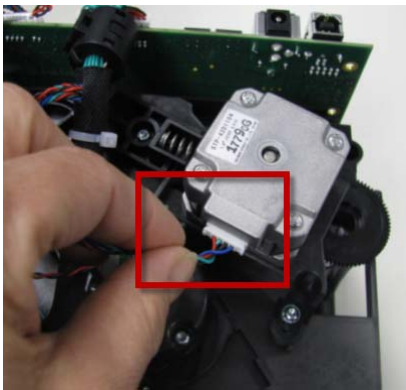
Remove/Replace the Stepper Motor D930027

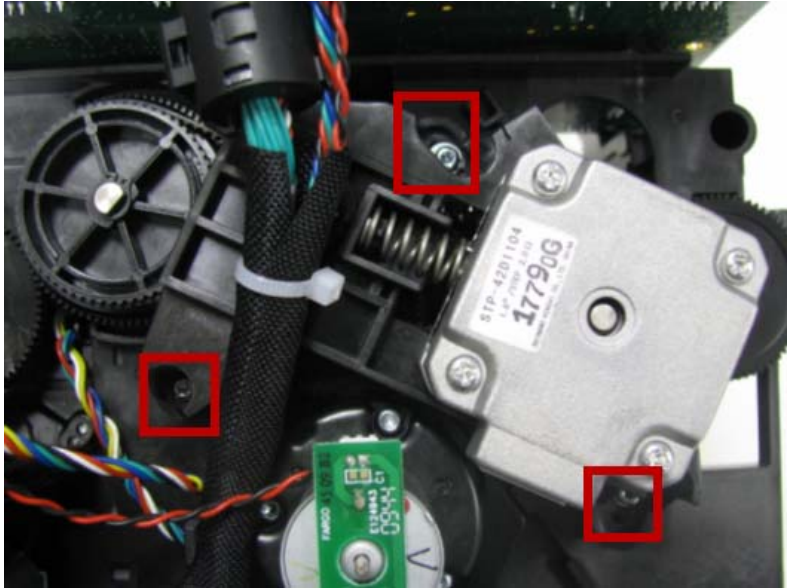
OR

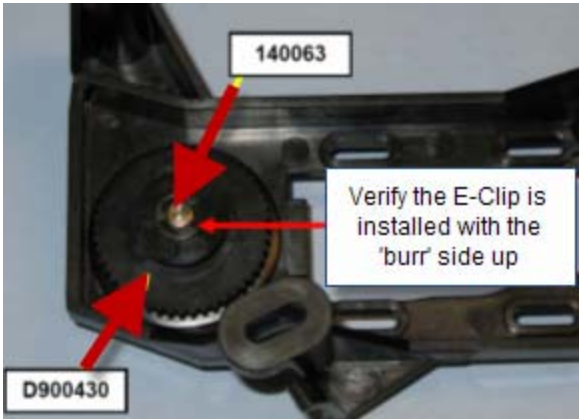
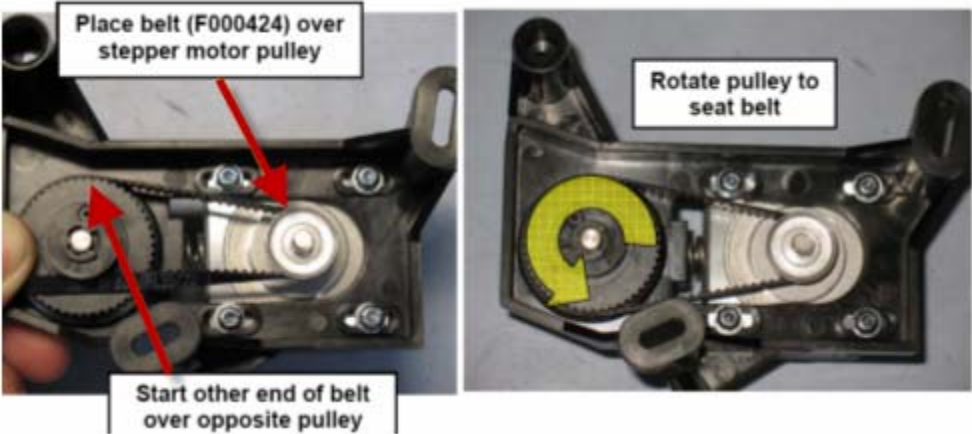
Remove/Replace Stepper Belt F000424 (2 used)

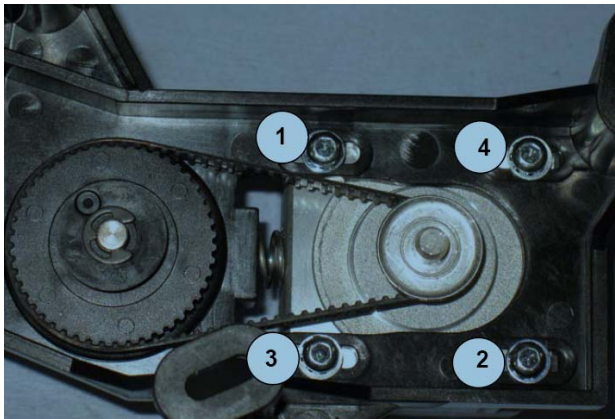
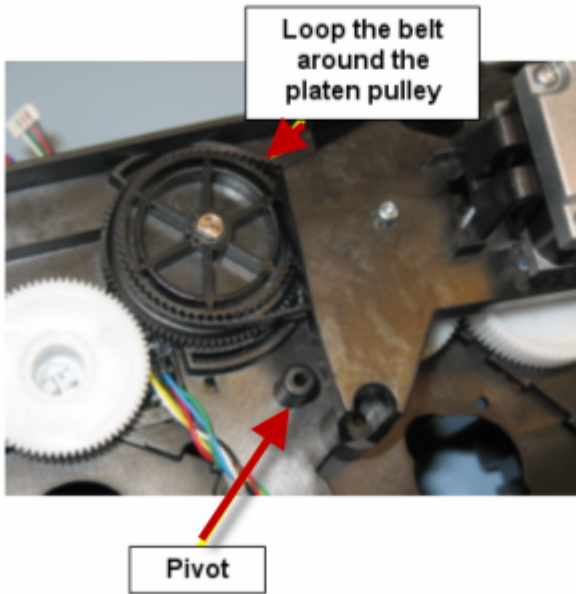
OR

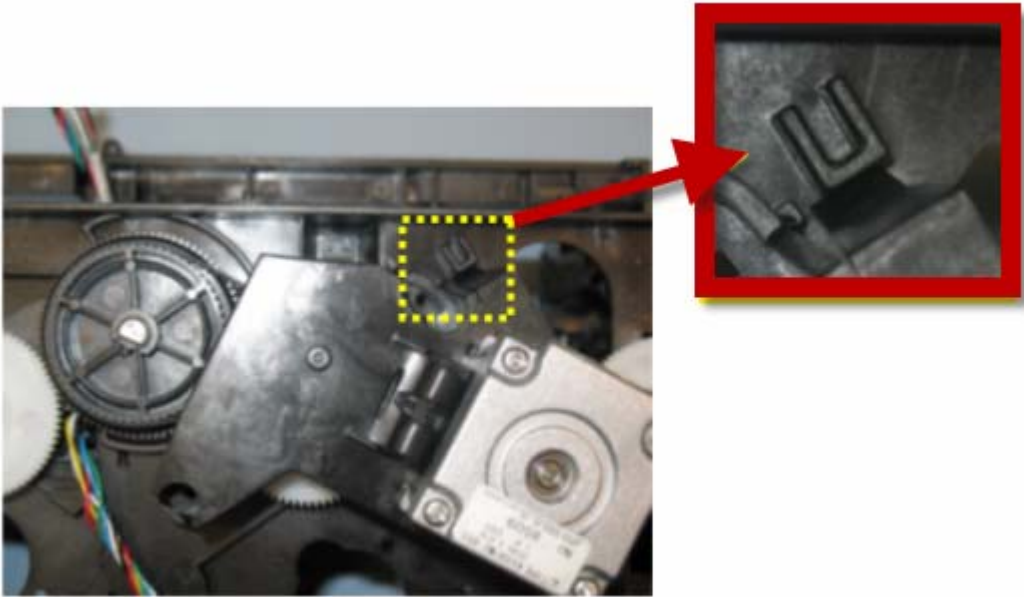
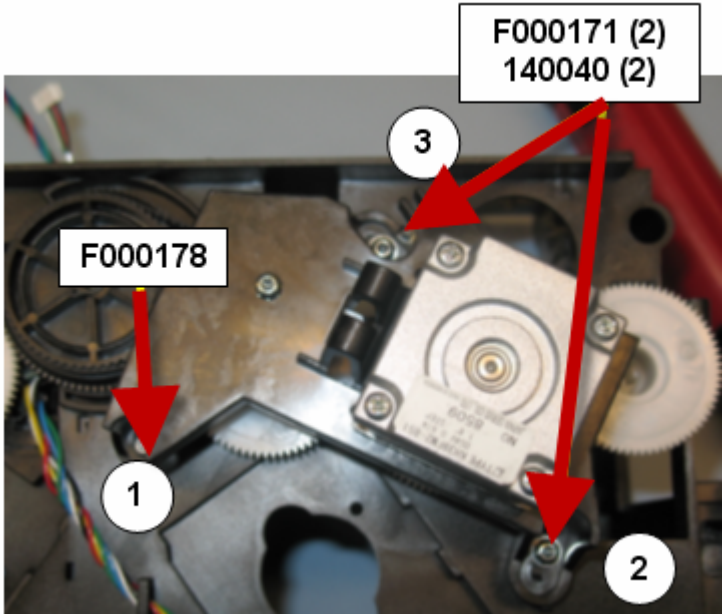
Remove/Replace Pulley D900430

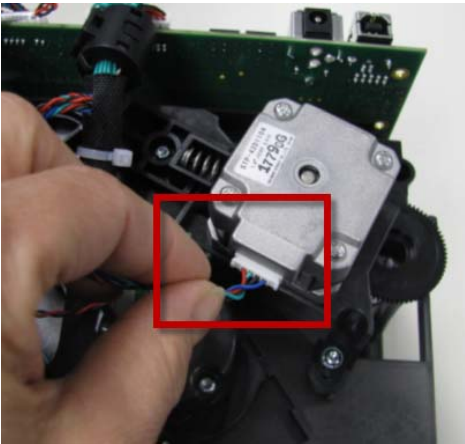
		Tools needed: T10 Torx screwdriver E CLIP tool Estimated Repair Time: 30 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel. Part Number: Complete assembly D930028
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove Covers.	
3	Lay printer on its front. Remove the cable harness (D930600) from the Stepper Motor. 	

4	Remove the 3 screws that hold the Motor/Mount to the printer frame. (Make note of where the 2 screw/washers go and the one machine screw. Remove the printhead cable for more clearance) The motor is attached to a plastic mounting frame. 
5	Remove the 4 screws that hold the stepper motor to the mount frame. One belt (F000424) will come off of the platen roller pulley/gear (D900429).  (Caution: Spring may pop out. Safety glasses required)

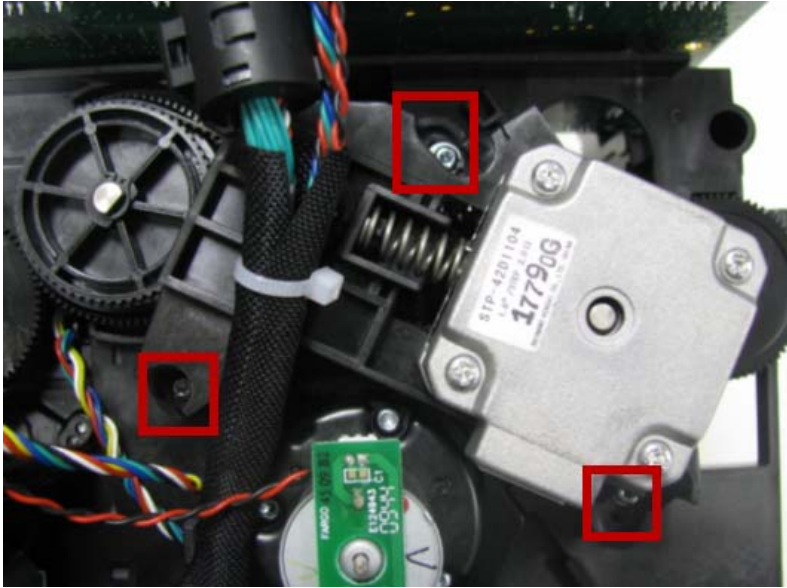
6	If replacing the Pulley D900430 remove the E CLIP (140063). Replace with new Pulley. Re install the E-clip. 
7	Replace the new Motor to the mount frame. Make sure Spring (F000332) gets put back into proper place 
8	Install the belt (F000424) 

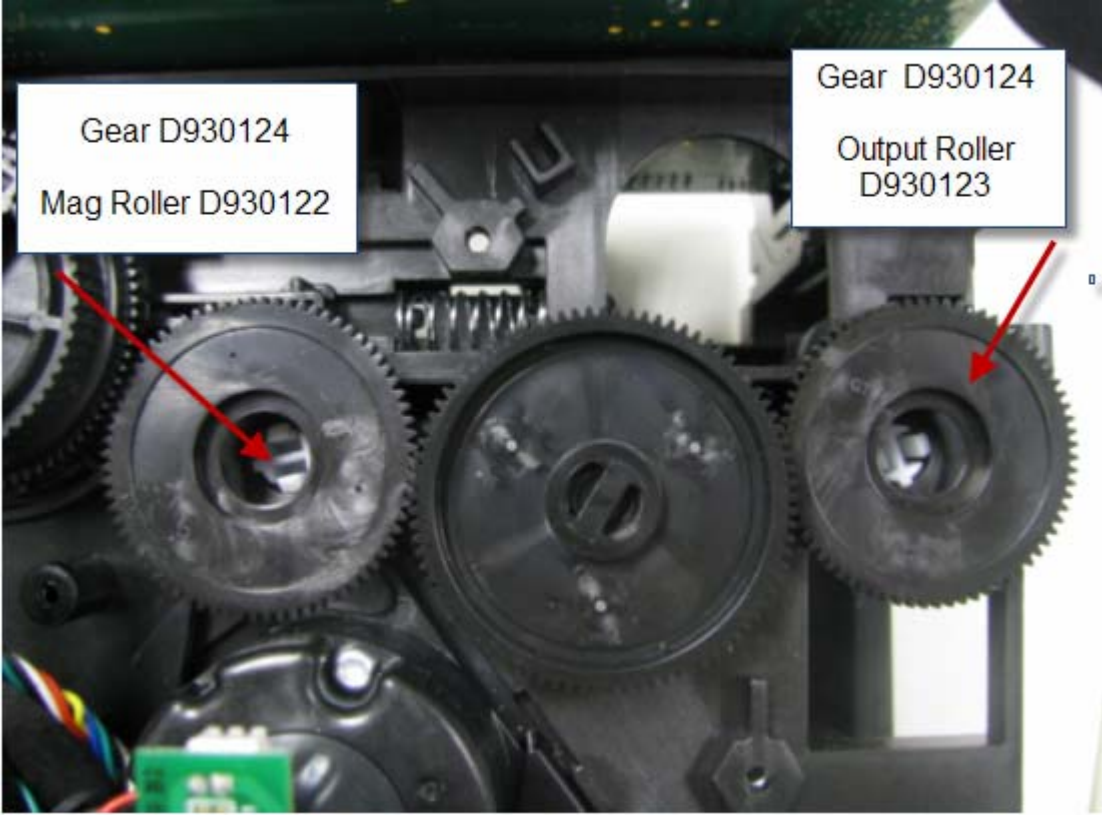
9	This Stepper Motor Mount provides a self tensioning feature. Keep the four (4) screws loose while holding the Mount Frame. Allow the spring to self-tension, then tighten the four (4) screws.  A close-up photograph of a metal stepper motor mount. Four screws are visible, each labeled with a number in a blue circle: 1 (top left), 2 (bottom right), 3 (bottom left), and 4 (top right). The mount is positioned over a gear assembly.
10	Install belt on stepper motor assembly and then loop the belt w/stepper drive assembly around the platen roller shaft gear. Place the Stepper Mount over the pivot peg.  A photograph showing the installation of a belt. A red arrow points from a text box labeled 'Loop the belt around the platen pulley' to a black pulley. Another red arrow points from a text box labeled 'Pivot' to a small metal peg. A white gear is visible on the left, and a multi-colored cable is in the foreground.

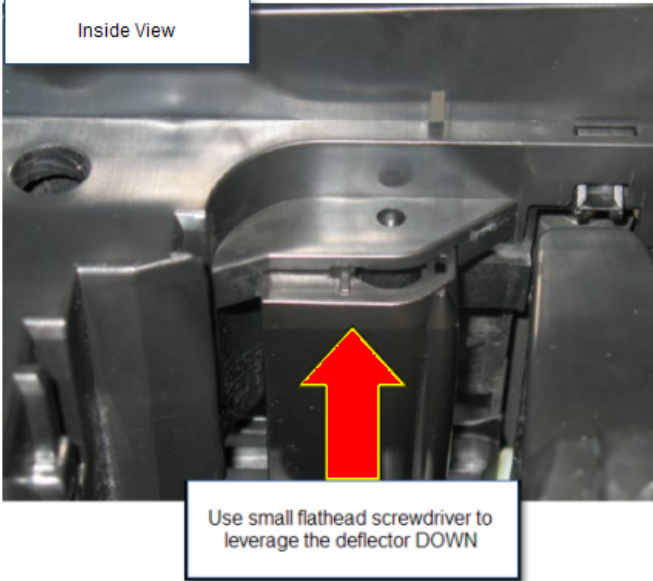
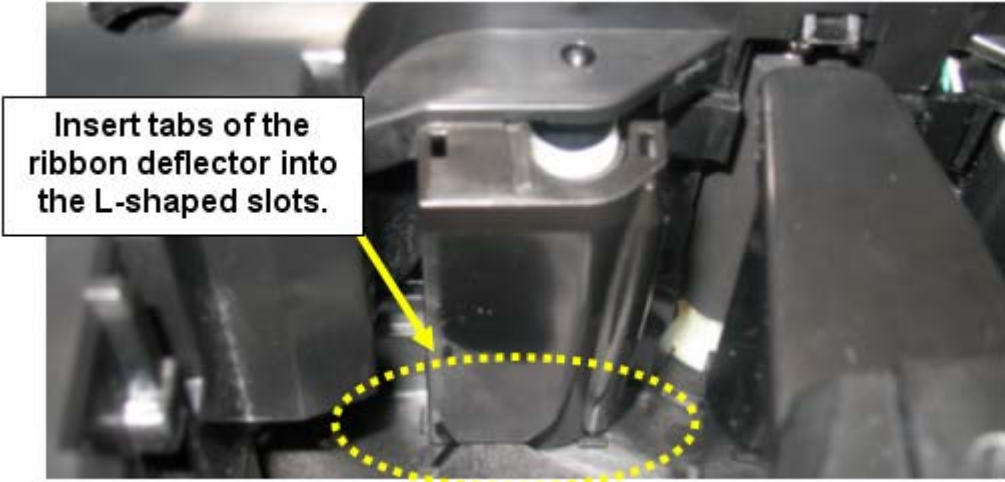
11	Fit the Mount behind the tab on the printers side plate frame. This locks the mount in place. 
12	Secure the stepper drive assembly with 2 screws (F000171) with 2 washers (140040), and one screw (F000178) at the specific locations shown. NOTE: Lightly tighten all screws first then tighten the (F000171) screws last. 

13	Plug motor cable back in.  Replace the printhead cable if it was removed in step 4.
14	Procedure is complete.

Remove/Replace the Mag Roller (D930122)

	Tools needed: Small flat screwdriver, T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Stepper Motor Assembly (D930028) Remove the 3 screws that hold the Motor/Mount to the printer frame. (Make note of where the 2 screw/washers go and the one machine screw. Remove the printhead cable for more clearance.) The motor is attached to a plastic mounting frame. 

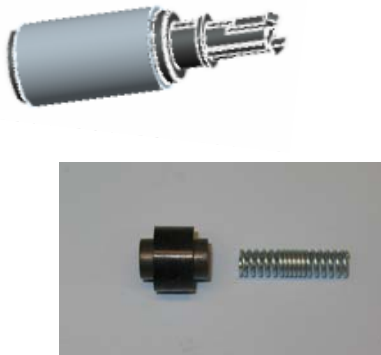
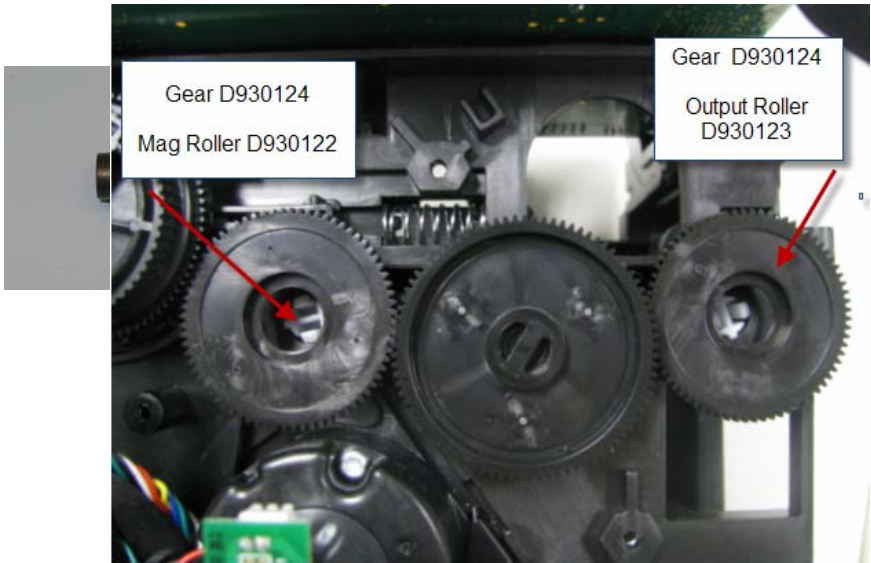
3	Remove the Mag Roller Gear (D930124) by pulling out.  Gear D930124 Mag Roller D930122 Gear D930124 Output Roller D930123
4	Remove the Ribbon Deflector Plate (D930129) to access the Mag Roller. Release the tabs that hold the plate in place.

	Inside View 
5	Pull the Mag Roller out from the front side of the printer.
6	Replace with the new roller. Install the Mag Gear from the back to hold the roller in place. Make sure roller sits in front tab(hidden) in front sideplate. Make sure tabs line up and snap into place. Wiggle in place.
7	Install the Ribbon Deflector Plate. 
8	Re-install stepper motor assembly (refer to Stepper Motor D930028 procedure)
9	Procedure is complete.

Remove/Replace the Output Roller (D930123)

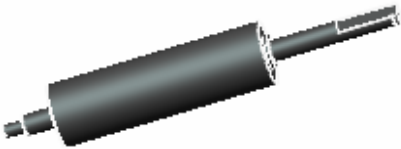
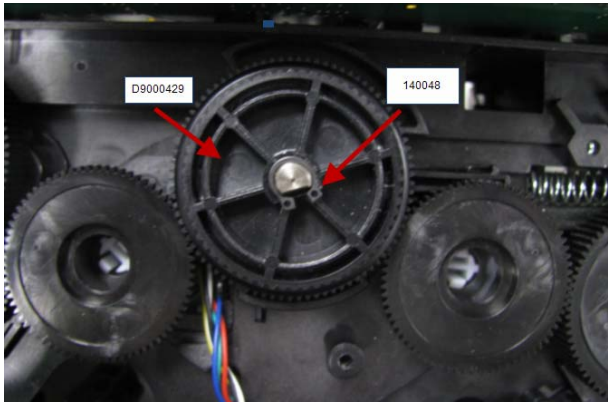
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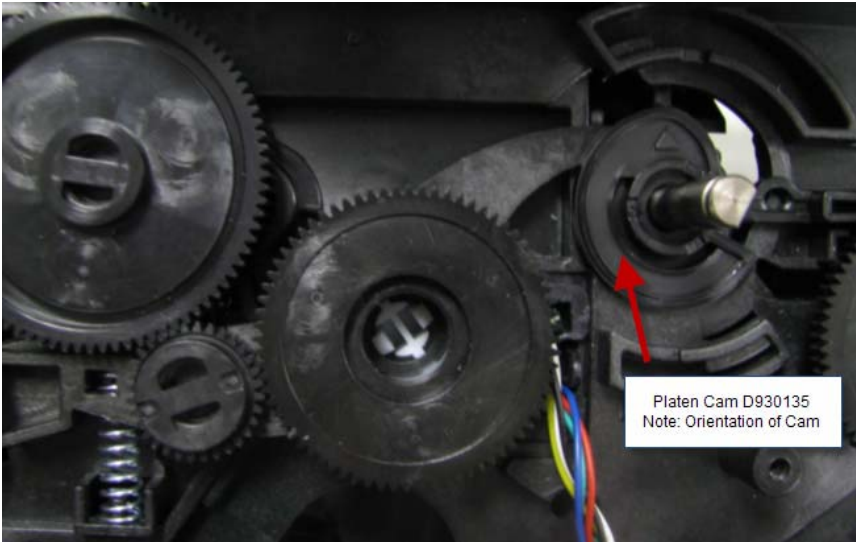
Remove/Replace Pinch Roller-spring (D900013-F000338)

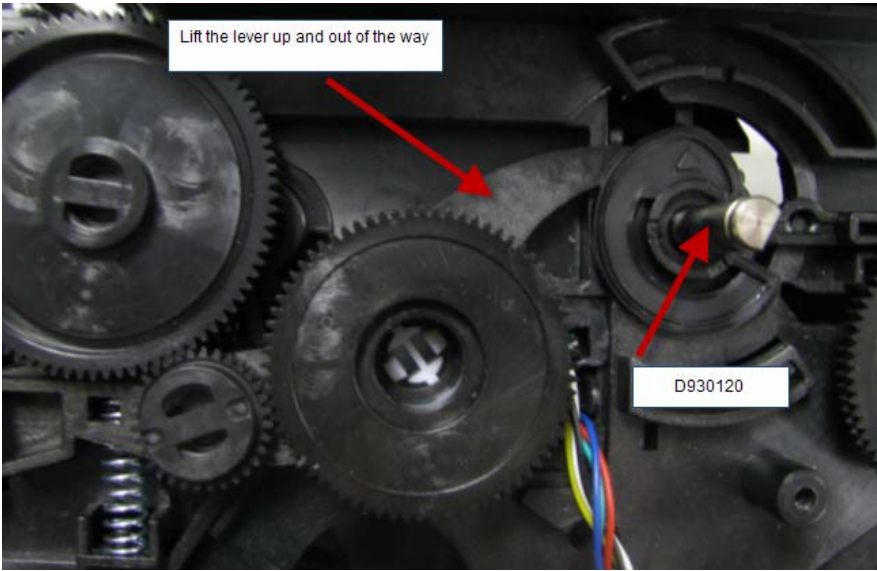
		Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove the Output Roller Gear (D930124) by pulling straight out. No need to remove the Stepper Motor Assembly. 	

3	Flip printer on front remove Roller (D930123) Pull straight up and out
4	Replace with new roller and replace the gear onto the roller. Procedure completed.
5	Remove the output roller first and then remove the Pinch Roller Use a small flathead screwdriver to release the spring (F000338) and the Pinch Roller (D930013). Replace with new roller. 
6	Reverse assembly to reinstall parts.
7	Procedure is complete.

Remove/Replace the Platen Roller (D930120) & Pulley/Gear (D900429)

		Tools needed: T10 Torx screwdriver Estimated Repair Time: 45 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove the Stepper Motor Assembly (E000062)	
3	Remove the E Clip (140048) and the pulley/gear(D900429)  Remove washers from shaft. (Replace the gear if necessary)	

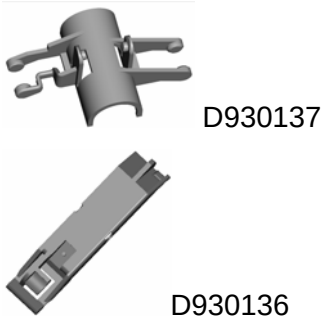
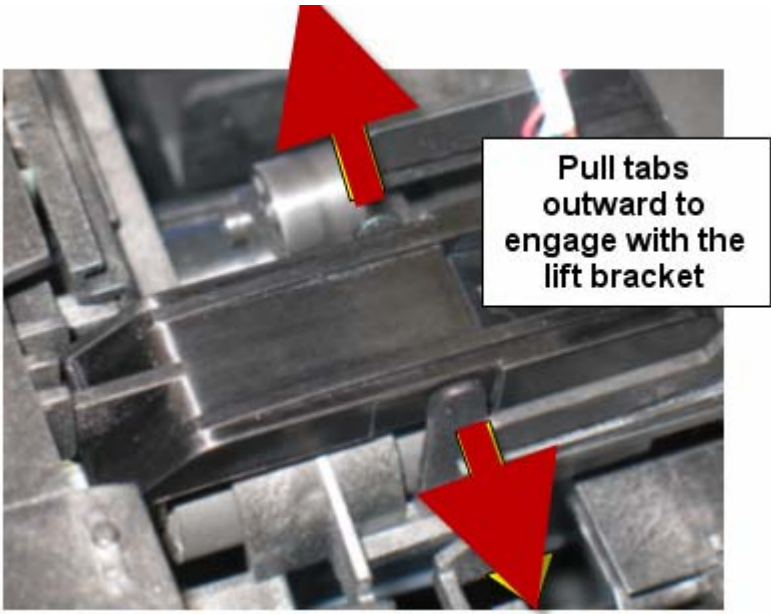
4	Turn the twist lock Bushing-Twist Lock (D930178) counter clockwise to unlock and lift up. It is not necessary to remove the surrounding gears. 
5	Remove the Platen Cam (D930135). Rotate cam clockwise to remove. Pull off of the Platen Roller Shaft. 
6	Remove the print head assembly if better access is needed. See Printhead removal procedure. DTC1000-DTC4000-DTC4500 Printhead procedure

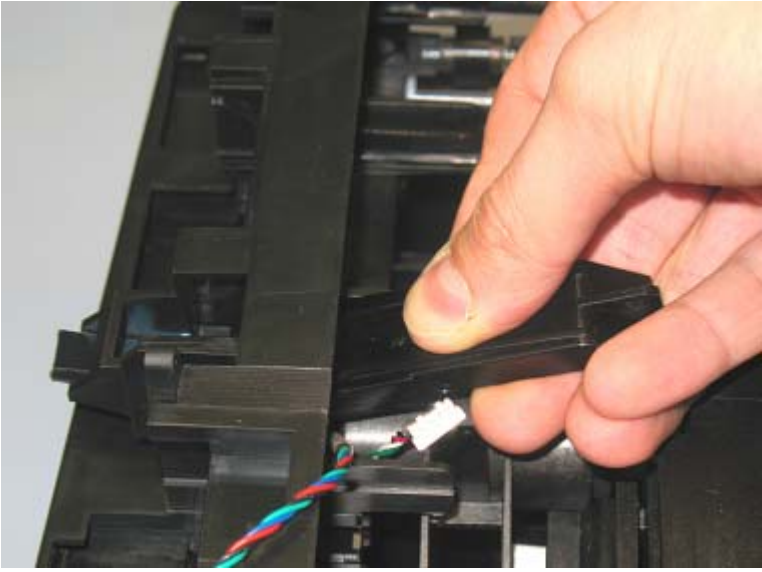
7	Move the lever up to clear the Platen Roller (D930120) 
8	Replace with new roller.
9	Reverse assembly to reinstall parts.
10	Procedure is complete.

Remove/Replace the Lift Pinch Roller Assembly (D930137)

OR

Remove/Replace Pinch Lift Bracket (D930136)

 D930137 D930136	Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 Min Preparation: . Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the mainboard (D930500)
3	Pull the tabs apart on the Bracket (D930136) to release. Lift up and out.  Pull tabs outward to engage with the lift bracket

4	Rotate the Lift Bracket (D930136) with the spring (D930266) upwards to disengage the hinge. 
5	Lift out the Pinch Roller Bracket (D930137). NOTE: Verify orientation when re installing. Verify the pinch roller assembly is oriented correctly 
6	Replace with new Platen Roller. Lock platen with cam first into the front sideplate.

7

To reinstall the Pinch Roller Assembly:

a. Verify orientation of the Pinch Roller Assembly

Verify the pinch roller assembly is oriented correctly



b. Connect the spring to the bracket.

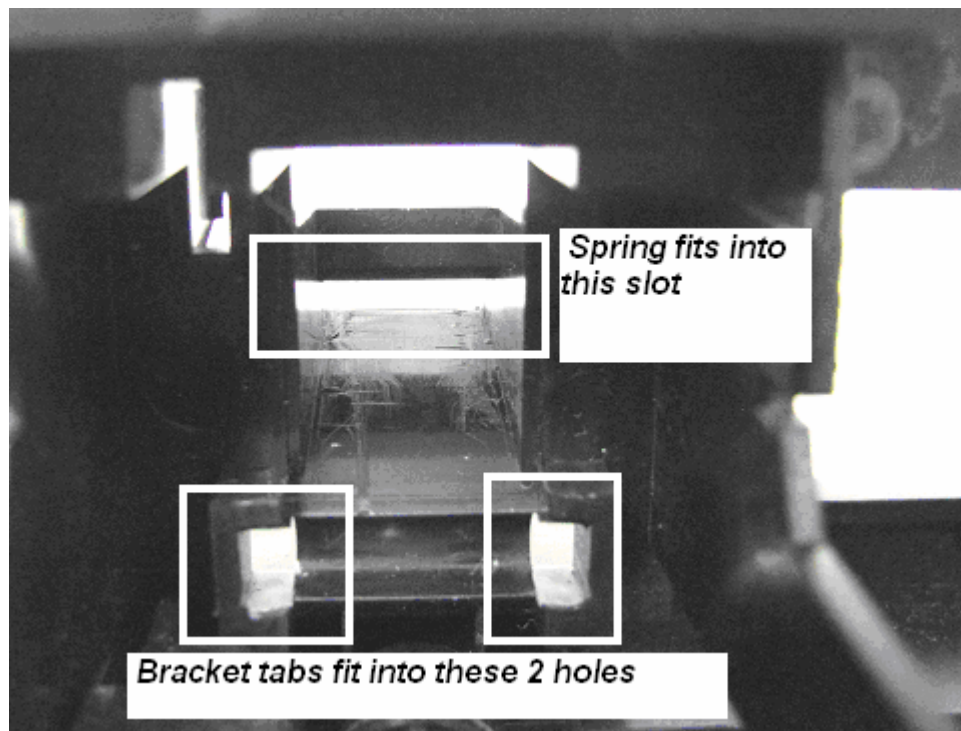
Verify the spring is interlocked with the bracket tab



**Bracket
D930136**

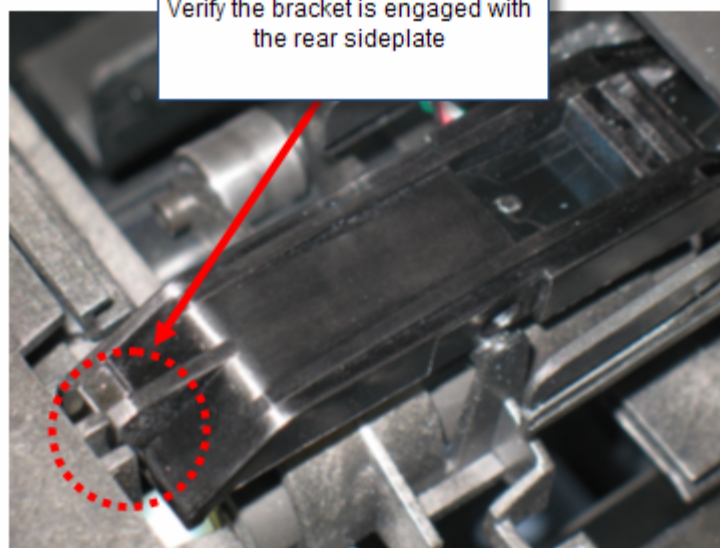
**Spring
D930266**

c. Insert the Bracket tabs into the holes provided in the sideplate frame.

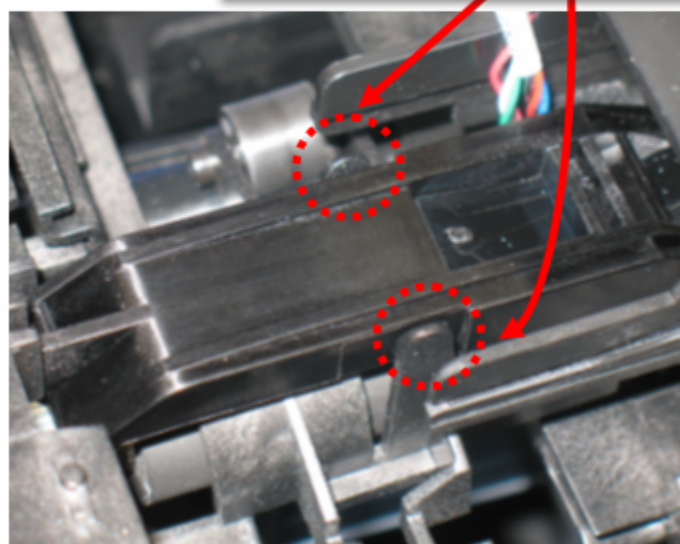


d. Tilt the spring upward and fit in to the slot provided. Some force is needed to snap the spring and tabs in place.

e. Click the Bracket into the frame.



f. Snap the Roller Bracket tabs to the Lift Bracket.



g. Procedure is complete.

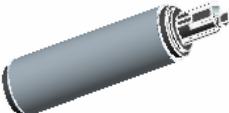
Remove/Replace the Cleaning Roller (D930121)

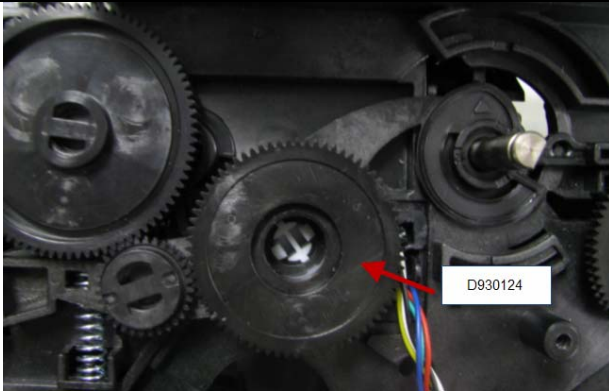
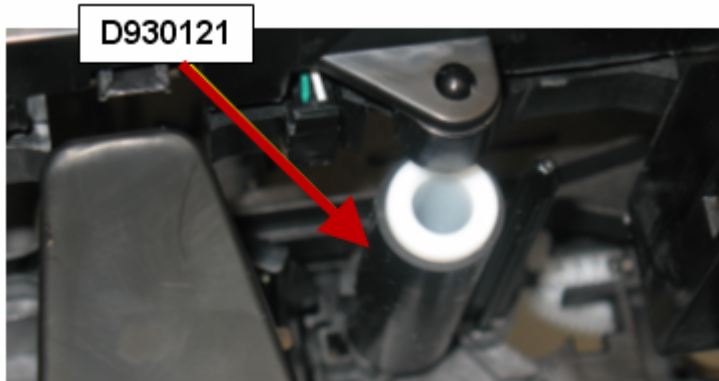
OR

Remove/Replace Input Feed Lever (D930132)

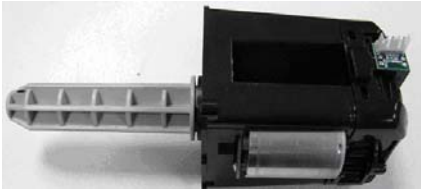
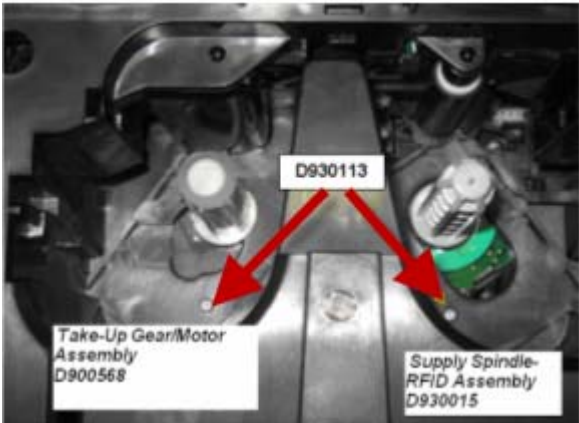
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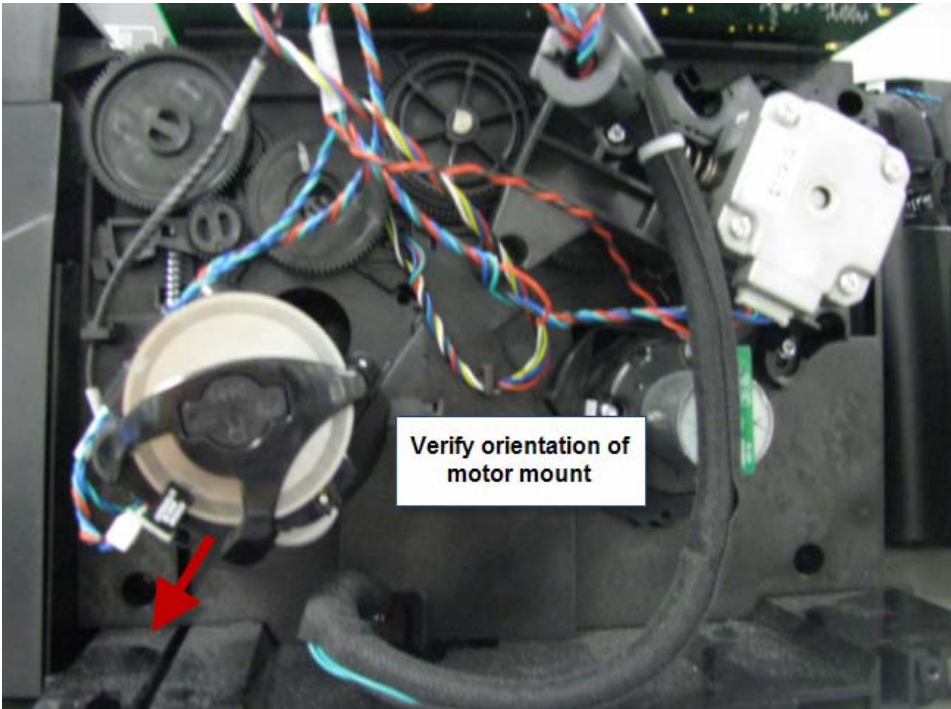
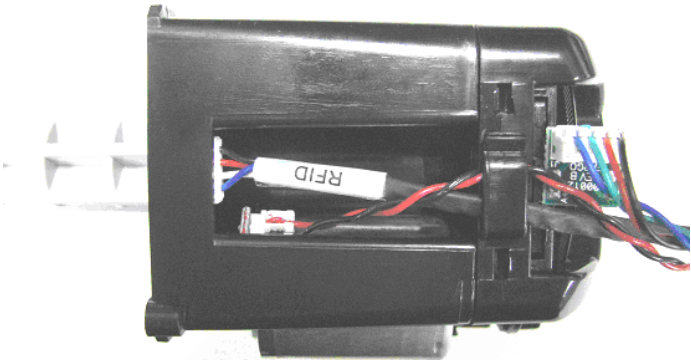
Remove/Replace Input Lever Gear (D930164)

 D930121  Gear D930164 Lever D930132		Tools needed: T10 Torx screwdriver Estimated Repair Time: 30 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove the ribbon supply assembly.	
3	Remove the mainboard (D930500)	
4	Remove the Cleaning Roller Gear (D930124)	

	
5	Remove the stepper motor assembly and belt (D930028)
6	Remove the pulley (e-clip) and washers.
7	Remove platen cam rotation. Locking bushing.
8	Remove the Lever. Be careful not to lose the spring. NOTE: How the spring is set into the pegs. The gear will pull straight out.
9	From the front of the printer release the cleaning roller from the peg by pushing all the way back and dropping the roller. 
10	Replace with new roller.
11	Insert the Spring into the upper and lower pegs. Install the Lever then the Gear. Turn the black platen gear to verify the gears turn simultaneously.
12	Reinstall cam, locking bushing, stepper motor, ribbon supply assembly.
13	Procedure is complete.

Remove/Replace Supply Spindle RFID Motor (D930015) DTC4500

 D930115	Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the screw D930113 from the motor assembly. This is done from the front of the printer.  NOTE: DTC1000/4000 will have 2 screws holding the Supply. DTC4500 has only one screw holding the supply.

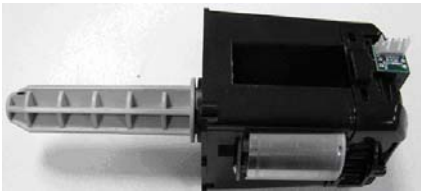
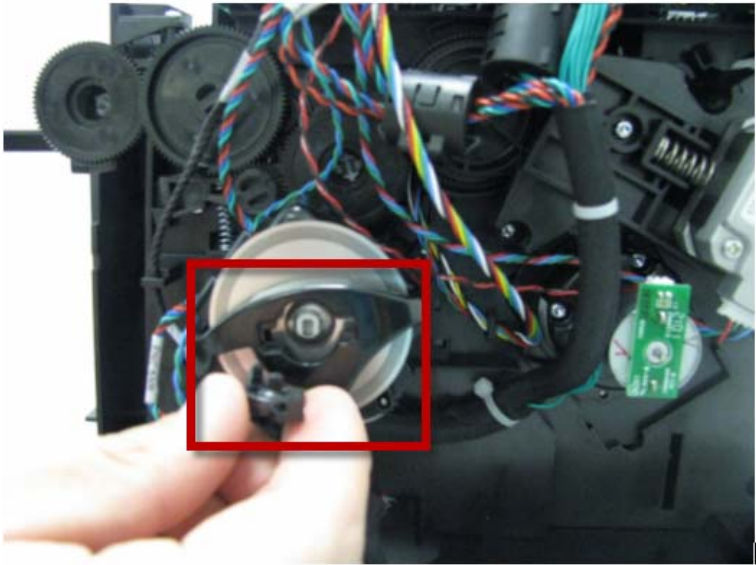
3	Slide the Supply Spindle DOWN To release. Slide the Motor UP to install. NOTE: You do not need to remove the gears or the Stepper Motor for this procedure. 
4	Remove the RFID cable (D930603) from the Supply Spindle. Remove the Encoder Sensor cable harness (D930600) from the encoder sensor. NOTE: The routing of these wires under the clip. 

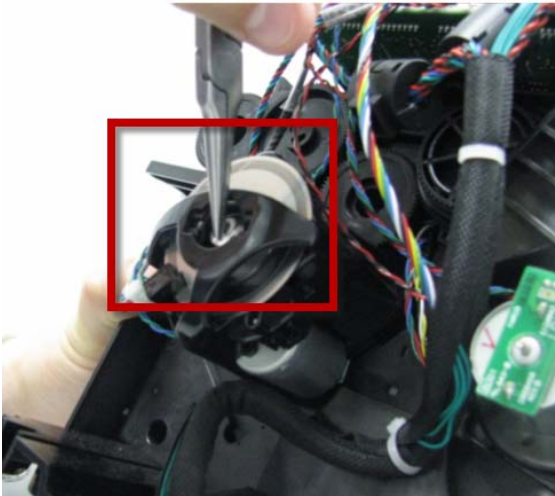
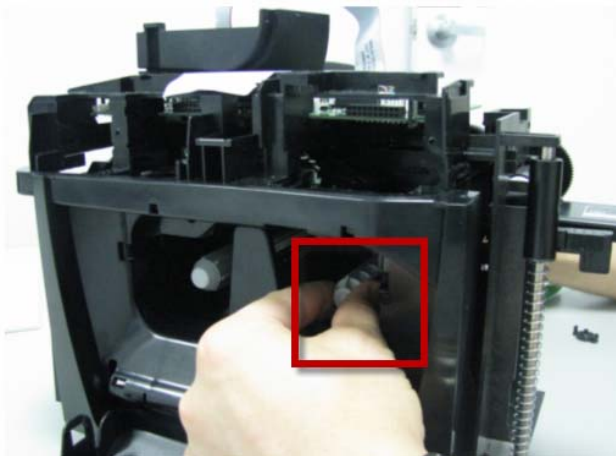
5	Replace the complete assembly Motor. Reconnect wires.
6	Procedure is complete.

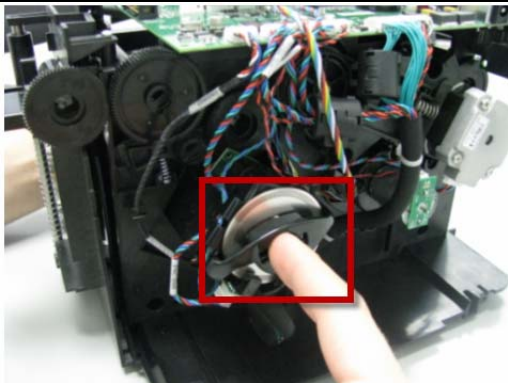
IMPORTANT NOTE ON THE INITIAL RELEASE OF THE DTC1000 OR DTC4000 CARD PRINTERS.

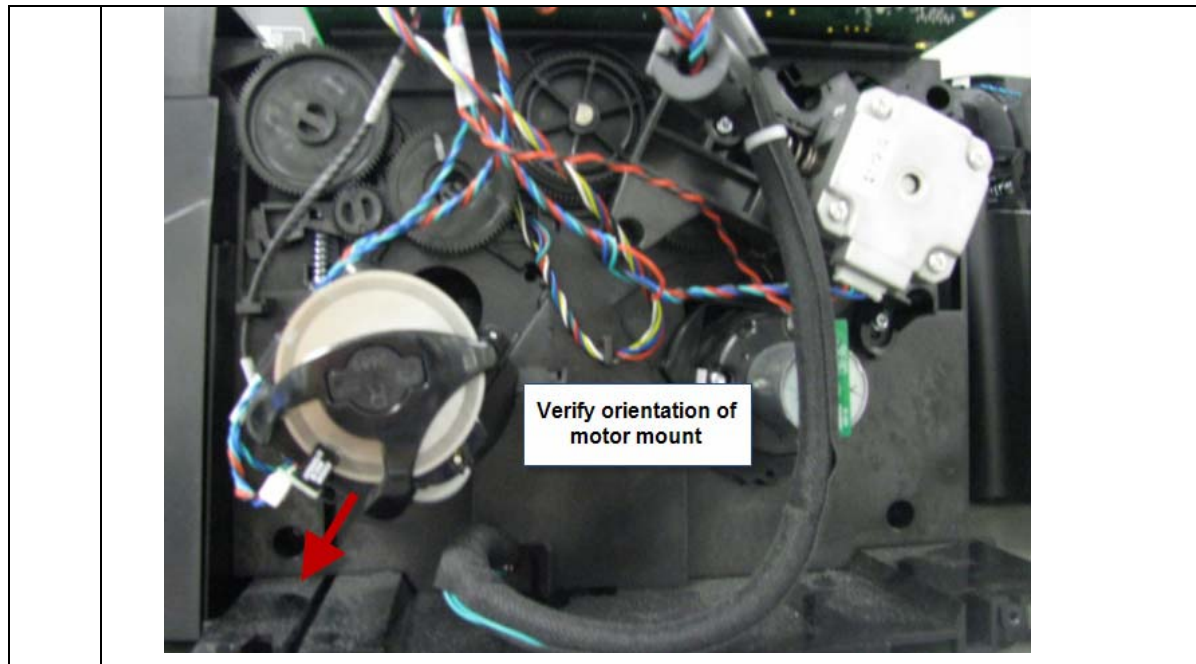
Remove/Replace Supply Spindle RFID Motor (D930015) DTC1000/4000

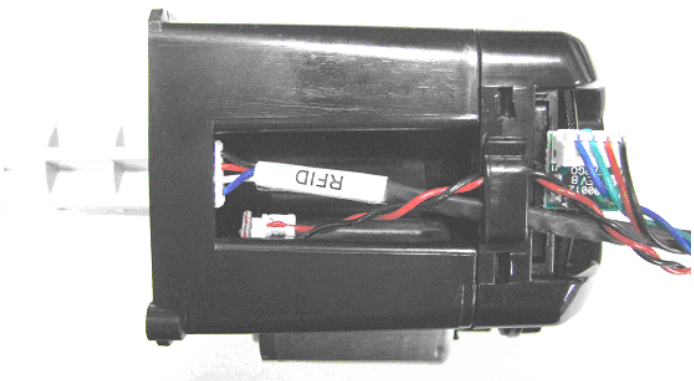
NOTE:. The Spindle must be removed first then the motor can be removed.

 D930115		Tools needed: T10 Torx screwdriver, small flat screwdriver, needle nose pliers Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove the Damper (F000511). Use a small flathead screwdriver to loosen. 	

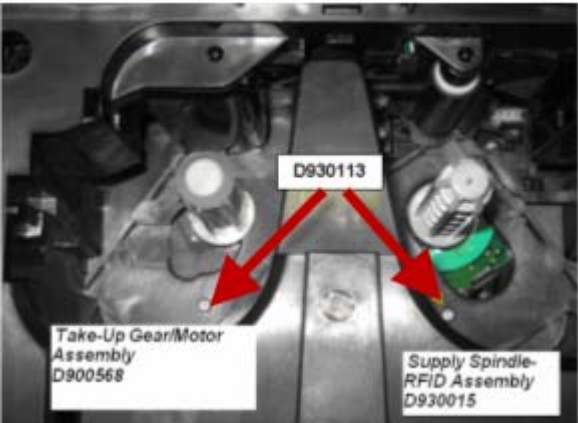
3	Remove the Retaining Ring (F000050). Use a needle nose pliers or thin flat screwdriver. (Careful- it may spring out. The new assembly will contain a new ring.) 
4	Pull the spindle out from the front.  Push the center of the Damper area to help move the spindle out.

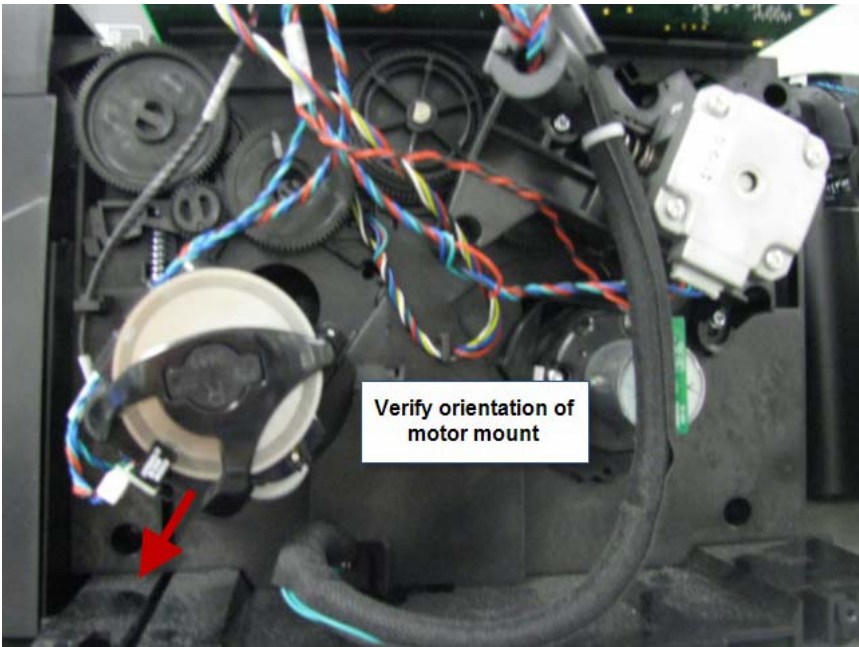
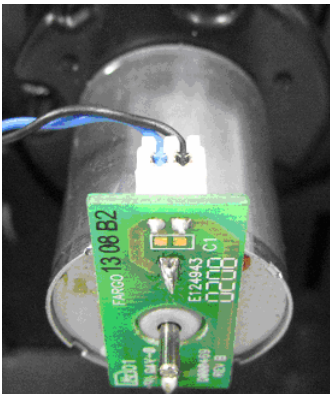
	
5	Remove the 2 screws (D930113) that hold the motor assembly. This is done from the front of the printer. 
6	Slide the Supply Spindle DOWN To release. Slide the Motor UP to install. NOTE: You do not need to remove the gears or the Stepper Motor for this procedure.



7	Remove the RFID cable (D930603) from the Supply Spindle. Remove the Encoder Sensor cable harness (D930600) from the encoder sensor. NOTE: The routing of these wires under the clip. 
8	Replace the complete assembly Motor. Reconnect wires.
9	Procedure is complete.

Remove/Replace Ribbon Take-Up Motor (D900568)

 D900568	Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the screw D930113 from the motor assembly. This is done from the front of the printer. 

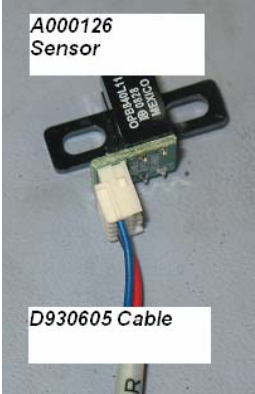
3	Slide the Take-Up Motor DOWN to release. Slide the Motor UP to install. NOTE: You do not need to remove the gears or the Stepper Motor for this procedure.  Verify orientation of motor mount
4	Remove the wire connection (D930600 harness) from the top of the Take-Up Motor. 
5	Replace the complete assembly Motor.
6	Reconnect wires.
7	Procedure is complete.

Remove/Replace Encoder Sensor (A000126) for RFID Supply Spindle/ Cable (D930605)

OR

Remove/Replace PCB board (A000365-01)

NOTE: For any other parts (motor/ encoder wheel) REPLACE COMPLETE ASSEMBLY (D930015).

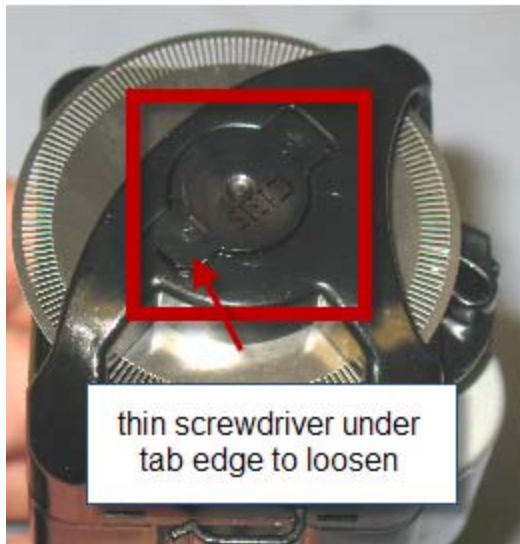
 D930603 cable A000365 PCB	 A000126 Sensor D930605 Cable	Tools needed: Torx screwdriver and flat head screwdriver Estimated Repair Time: 30 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel. RFID Cable D930603 Encoder Sensor Cable D930605
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove Supply Spindle-RFID assembly. Refer to: Remove/Replace Supply Spindle RFID Motor (D930015) DTC4500 or Remove/Replace Supply Spindle RFID Motor (D930015) DTC1000/4000	

3

Remove the Damper Cap (F000487)

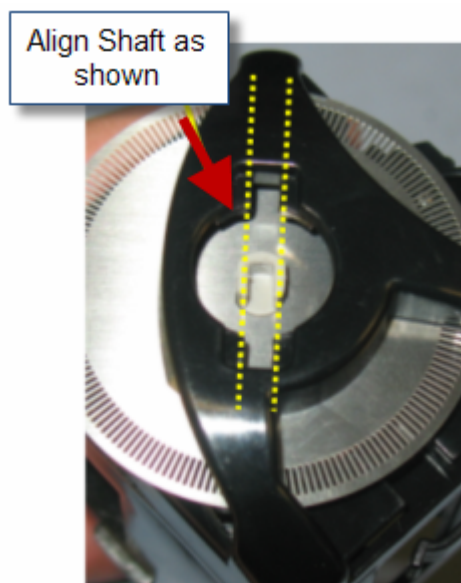
Use a thin flathead screwdriver to loosen one side.

The cap will pop off.



Note: Replace the Damper Cap by lining up the shaft first then snap the Damper Cap back on.

Verify the gray shaft is pushed up to hold the encoder wheel in place.

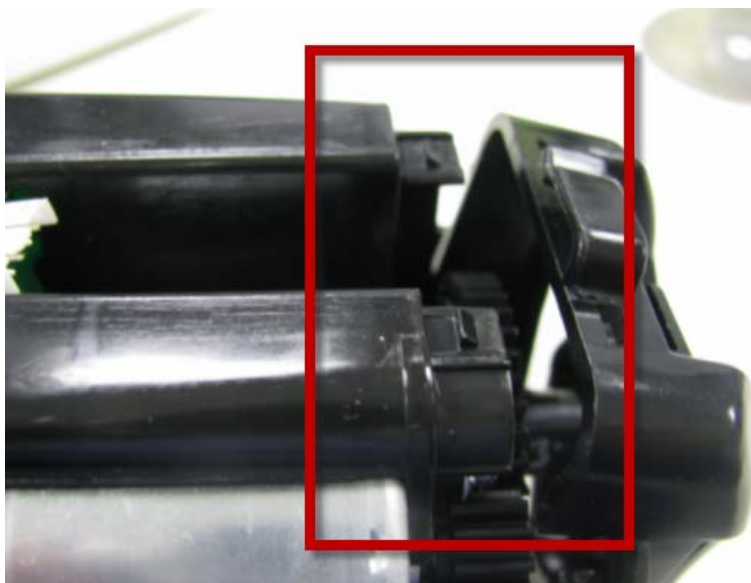


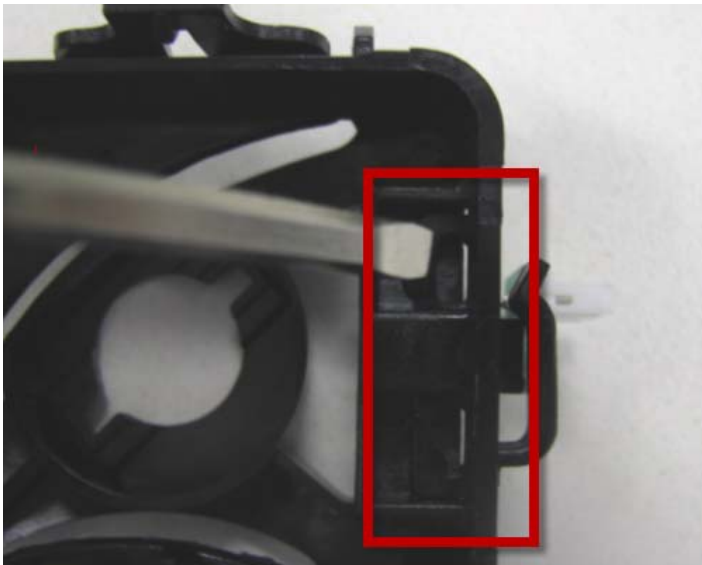
4

Remove the supply cover (D930116) by pulling up from the open end.

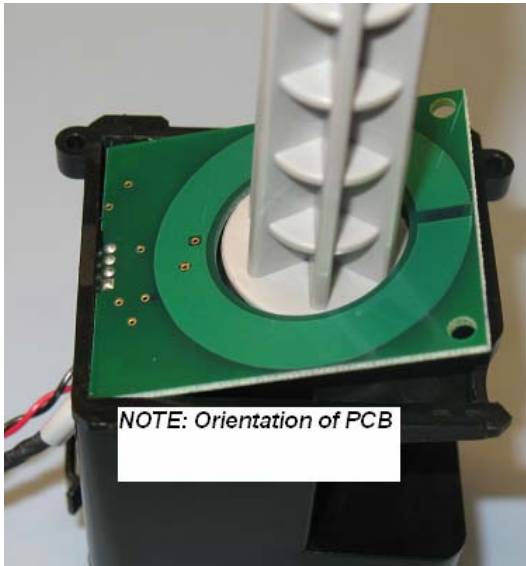
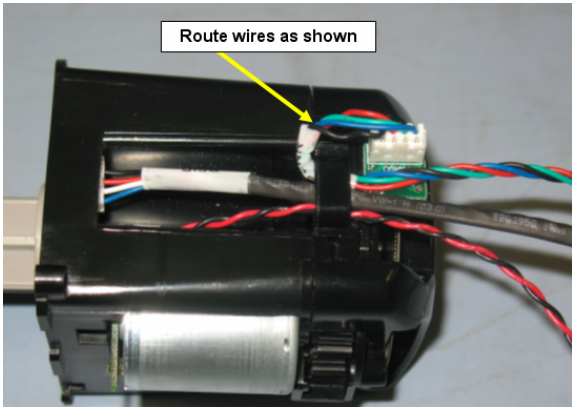


This will unlatch the tabs holding the cover to the frame.
This allows for access to the sensor.

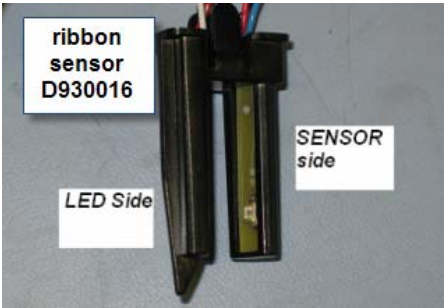
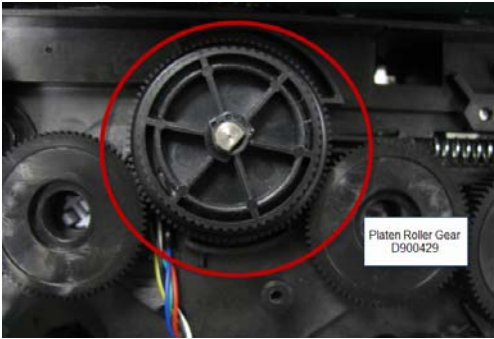


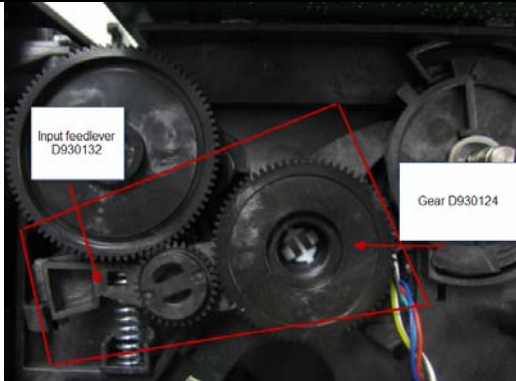
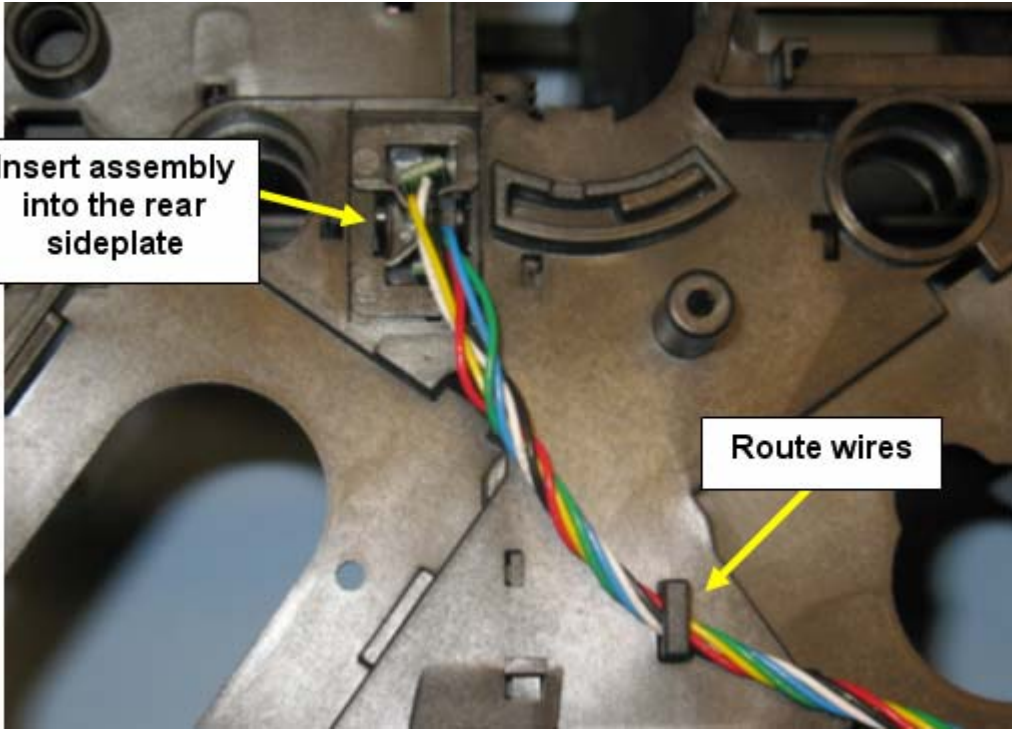
5	Remove the sensor. Use a thin flat blade screwdriver to unlatch the tabs holding the sensor to the frame. 
6	Press the new sensor into the assembly. Make sure the encoder wheel is in between the sensor. 
7	Replace with new Sensor (A000126) and/ or Cable (D930605)
8	Line up the sensor with the slot and snap back in. Reconnect cable to J18
9	Procedure is complete.

Remove/Replace the PCB board (A000365-01)

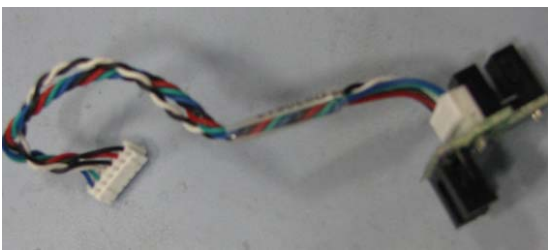
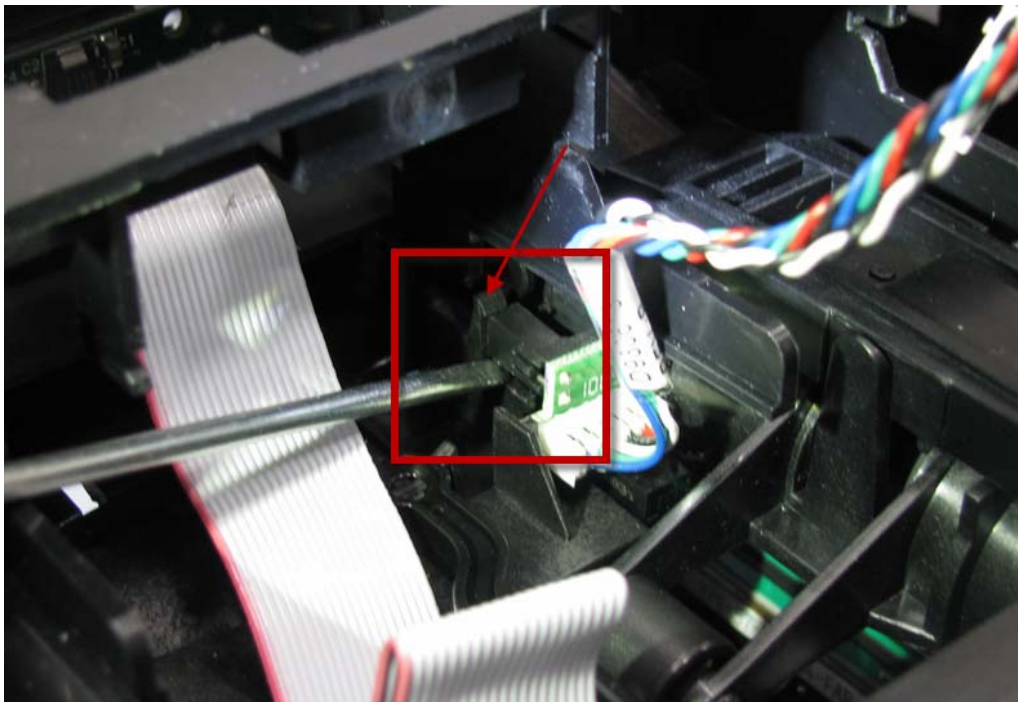
1	Remove Supply Spindle-RFID assembly. See procedure above (D930015). Un-snap the PCB from the frame. The PCB with the HOLES are set under the corner tabs. Lift up this end first. See picture below.
2	Replace with new PCB and/ or Cable.
3	Insert one end first then snap into the corner tabs. Replace cable to J9.  NOTE: Orientation of PCB
9	For both procedures route the cables under the holding tab.  Route wires as shown
10	Reverse assembly to reinstall parts
11	Procedure is complete.

Remove/Replace Ribbon Sensor (D930016)

 ribbon sensor D930016 LED Side SENSOR side	Tools needed: T10 Torx screwdriver Estimated Repair Time: 30 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel. Ribbon Sensor Cable D930608
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the stepper motor assembly first.
3	Remove the Platen Roller Gears to access the Ribbon Sensor. Remove the retaining ring and pull off the gear.  Platen Roller Gear D900429
4	Remove the Input Feed Lever (D930132), Spring and Gear to access the Ribbon Sensor.

	 Input feedlever D930132 Gear D930124
5	From the INSIDE of the printer: Pinch the tabs on the other side to help remove the sensor from the frame. PUSH the Ribbon Sensor back to release the tabs and remove the sensor.
6	Replace with the new sensor. Push the sensor back in using the tabs to snap the sensor in place. This is done from the rear sideplate of the printer near the gears. Note: The wire routing to the frame.  Insert assembly into the rear sideplate Route wires
7	Reverse assembly to reinstall parts. Verify wave washer is in place.
8	Procedure is complete

Remove/Replace Card Path/Cover Sensor (D930613)

		Tools needed: T10 Torx screwdriver Estimated Repair Time: 30 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove the mainboard. Remove the J11 and J17 connector from the mainboard.	
3	Use a small flathead screwdriver to GENTLY pry the sensor up. The sensor must be released from the small tab holding the sensor. (See the RED arrow)  (The cable is shown on THIS side of the frame for clarity.)	

4

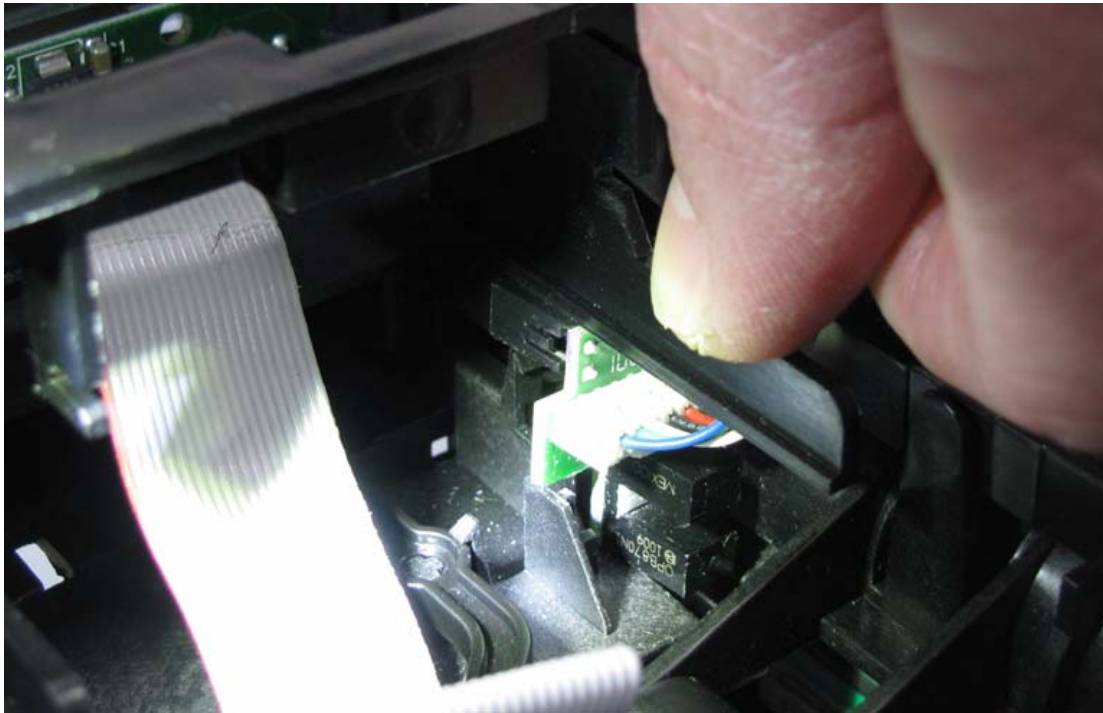
Replace with the new sensor.

Line up the sensor and push down to snap it in place UNDER the small tab.

Route the cable on the right side of the frame as shown in the picture below.

Connect to the mainboard

Reverse assembly to complete the procedure.



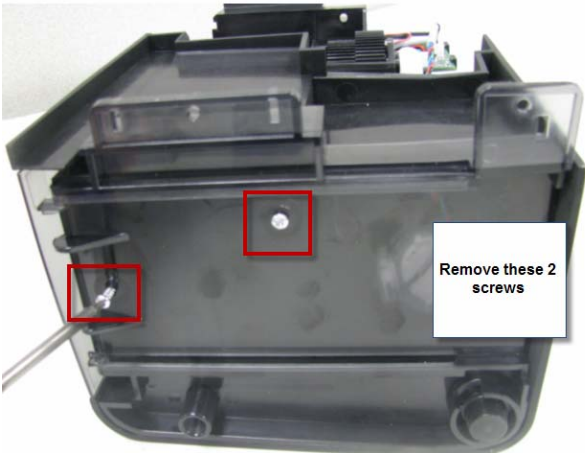
Parts Replacement - Dual-Sided Printing Module

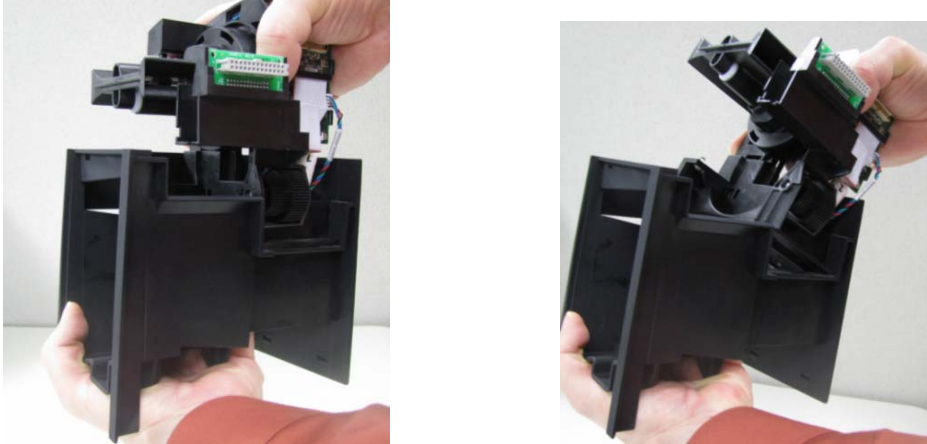
- D930010 (Short Module) used for Printer/ Flipper assembly
- D930019 (Tall Module) used for Printer/ Flipper/ Lamination assembly
- **IMPORTANT NOTE:** The Flipper Table should be level when the Printer is powered up. If the Flipper Table is at an angle, open the access door and manually level it. Then cycle the Printer Power to reset.

Remove all covers to access the Flipper Parts Replacements

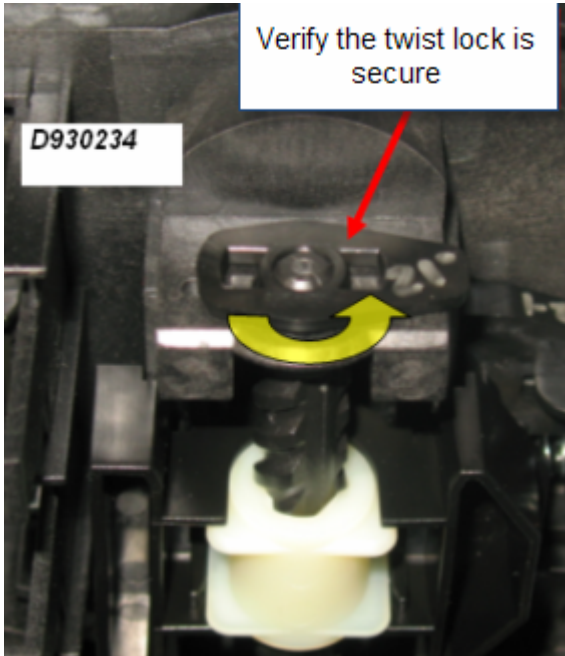
Remove/Replace the Flipper Cover

		Tools needed: T10 Torx screwdriver Estimated Repair Time: 15 min Preparation: Remove the top cover of the Printer and Dual-Sided Printing Module from the Printer Important: This procedure can only be performed by authorized service personnel. Short & Tall use common parts <table><tr><td>Top cover</td><td>D930192-01</td><td>DTC4000/4500</td></tr><tr><td>Top Cover</td><td>D930192-02</td><td>DTC1000</td></tr><tr><td>Card Bin</td><td>D930193-01</td><td>DTC4000/4500</td></tr><tr><td>Card Bin</td><td>D930193-02</td><td>DTC1000</td></tr><tr><td>Flipper Door</td><td>D930194-01</td><td>DTC1000/4000/4500</td></tr></table> The Tall Dual-Sided Printing Module uses the Lamination Cover	Top cover	D930192-01	DTC4000/4500	Top Cover	D930192-02	DTC1000	Card Bin	D930193-01	DTC4000/4500	Card Bin	D930193-02	DTC1000	Flipper Door	D930194-01	DTC1000/4000/4500
Top cover	D930192-01	DTC4000/4500															
Top Cover	D930192-02	DTC1000															
Card Bin	D930193-01	DTC4000/4500															
Card Bin	D930193-02	DTC1000															
Flipper Door	D930194-01	DTC1000/4000/4500															
Step	Procedure																
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.  Caution: Please be careful not to force any of the snapping parts as they could break with too much pressure. When replacing the Covers or any parts, do NOT pinch any wires.																
2	Remove the Top Cover of the printer. Remove the Dual-Sided Printing Module from the printer.																

3	Remove the Dual-Sided Printing Module Top Cover. Grasp the cover from the open end and tilt forward to unlatch the front tabs. 
4	Remove the Flipper Base Cover: Turn the module over and use a T10 Torx screwdriver to remove the 2 screws of the bottom plate. 
5	Grasp the module with 2 hands and tilt back and up. TIP: Use your hand from underneath to push the inner wall OUT for easier release of the tabs.

	
6	The module is now ready to replace any of the following parts: • Flipper Table with gear and rollers (D930611) • Stepper Motor (E001135) with Gear connects to J5 • Stepper Motor (E001135) Cable (D930610) • PCB Output Controller-Main Board (D930503) • Lead Screw Assembly (D930155) used for SHORT Module • Lead Screw Assembly (D930176) used for TALL Module • Lead Screw Assembly Gear used for both Short and Tall (D930106) • Headlift Sensor & cable (D900113) connects to J3 HOME • IR Sensor Pair include Detector (Upper & Lower sensor with cable connects to J4 CARD) • Both IR sensors connect to ONE cable and are replaced at the same time. (D930609 used for SHORT Module. D930614 used for TALL Module) • Ribbon Cable (D930611) connects Flipper to printer

Remove/Replace the Flipper Table (D930011)

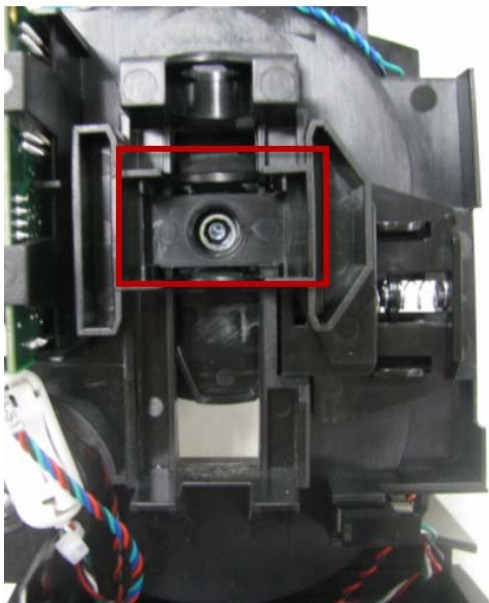
	Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Covers.
3	Remove the Bushing Screw Twist. Twist to unlock and lift off. 

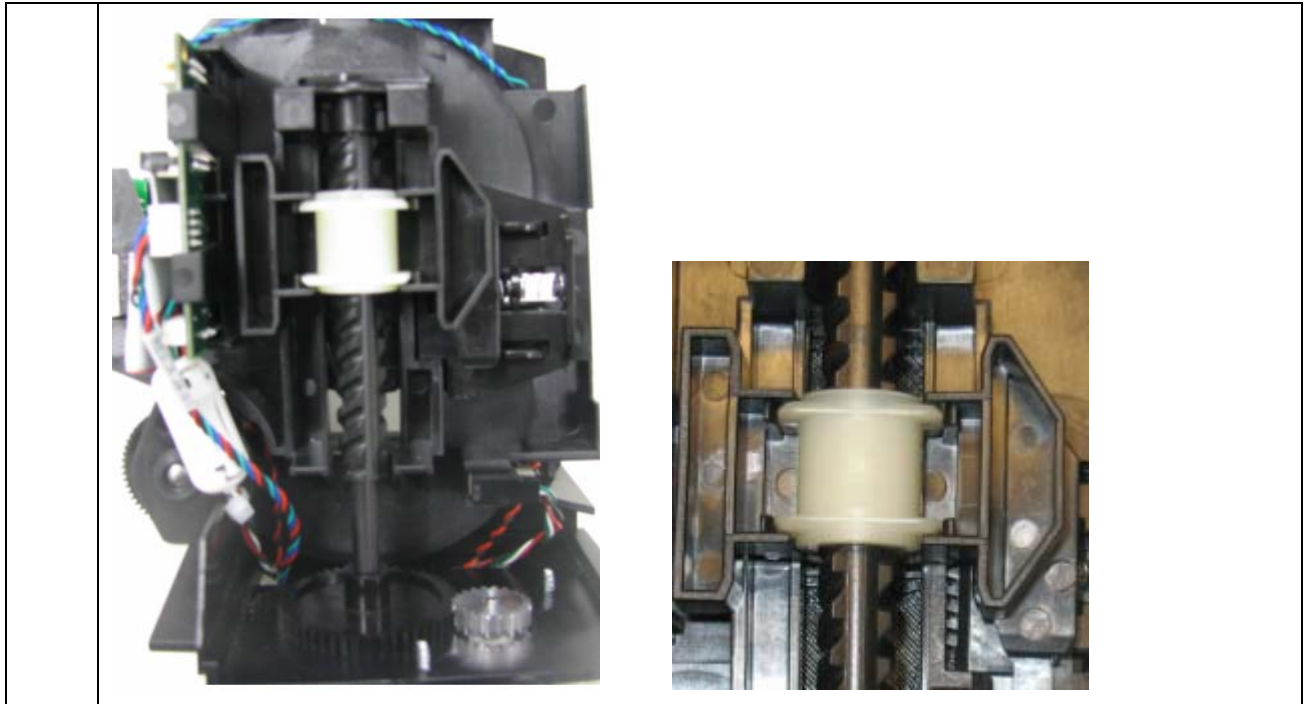
4

Remove the Lead Screw Assembly by pushing UP and pulling OUT from the bottom at an angle.



Short Lead Screw D930155
Tall Lead Screw D930176

5	Remove the one screw that holds the Flipper Table to the Bracket Table Mount 
6	Remove the Flipper Table.
7	Reverse assembly to install new Flipper Table. Verify Lead Screw and Lead Pin is set correctly. Push down on the top of the lead screw to set into the gear. Replace the twist lock.



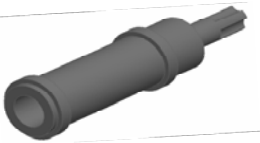
Remove/Replace the Flipper Feed Roller (D930149)

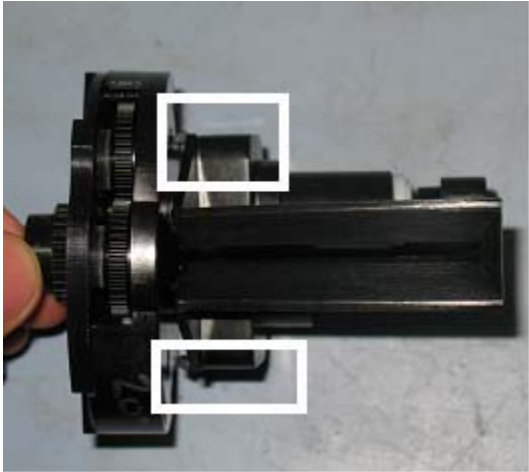
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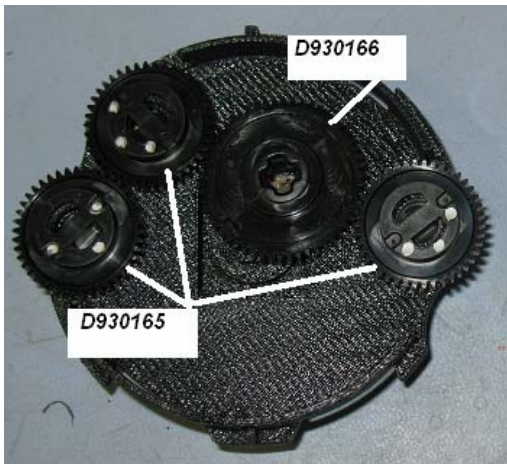
Remove/Replace Pinch Roller D920013 & F000338)

or

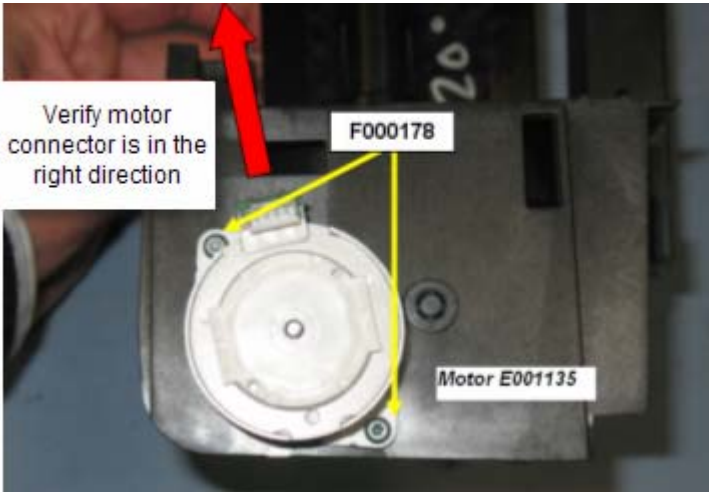
Remove/Replace Pinch Roller Gears (D30165 & D930166)

 D930149  D920013 + F000338   D930165 (3 used) D930166		Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 minutes Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Start with the instruction for replacing the Flipper Table.	

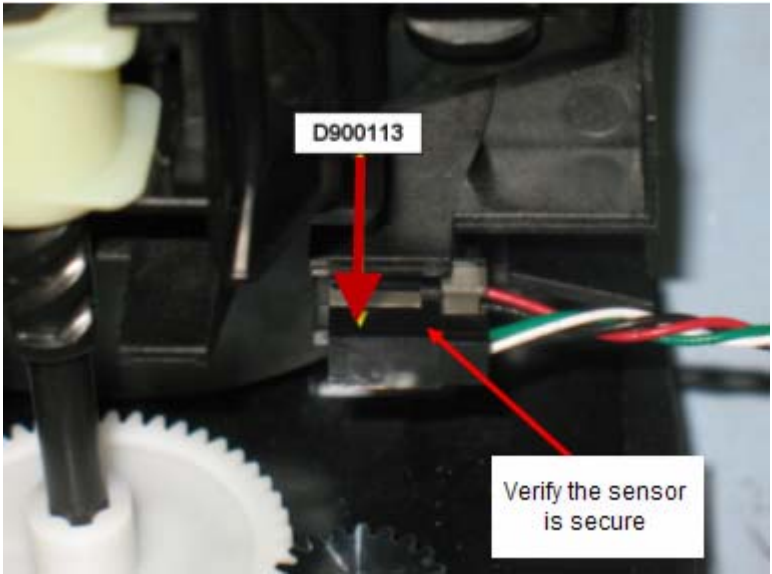
3	Remove the Flipper Table from the Base Bracket by pinching the 2 side tabs inward to release the table from the base. 
4	Card Feed Roller (D930149) - Replace with the new Roller. Line up the roller and the tab slots and push together. Verify the roller spins freely and turns the gears. 

5	Pinch Roller (D920013) Insert spring into the roller and line up one end at a time. 
6	Gear (D930165 –D930166) placement shown below for pivot bracket. Verify the assembly is fully snapped together if these are replaced. 
7	When re-assembling the table verify the LEAD Screw and gears move freely up and down and can rotate the table.
8	Replace the Bushing Screw Twist Lock to secure the Lead Screw.
9	Procedure is complete.

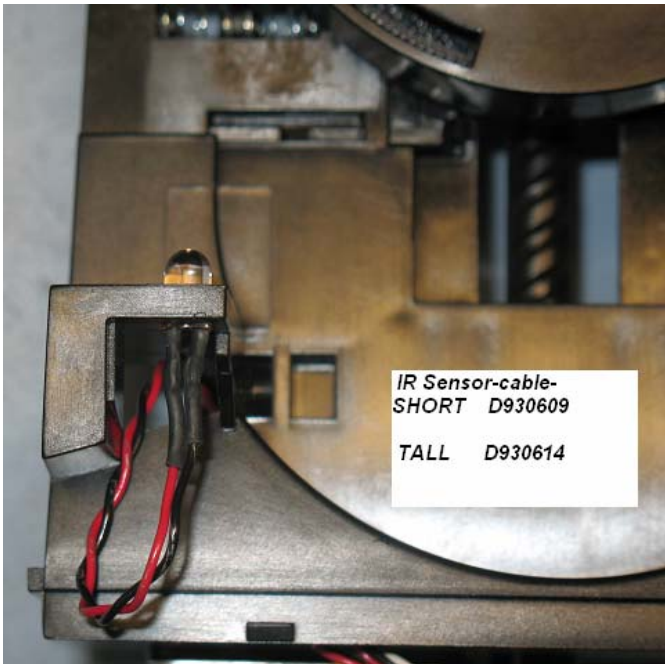
Remove/Replace the Flipper Assembly Stepper Motor – E001135

	Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel. Stepper Motor Cable (D930610)
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Flipper Covers.
3	Disconnect the cable (D930610) from J5 on the PCB. If replacing this cable make note of how the wire is routed.
4	Remove the 2 screws (F000178) that hold the motor to the frame. 
5	Replace with new motor
6	Procedure is complete

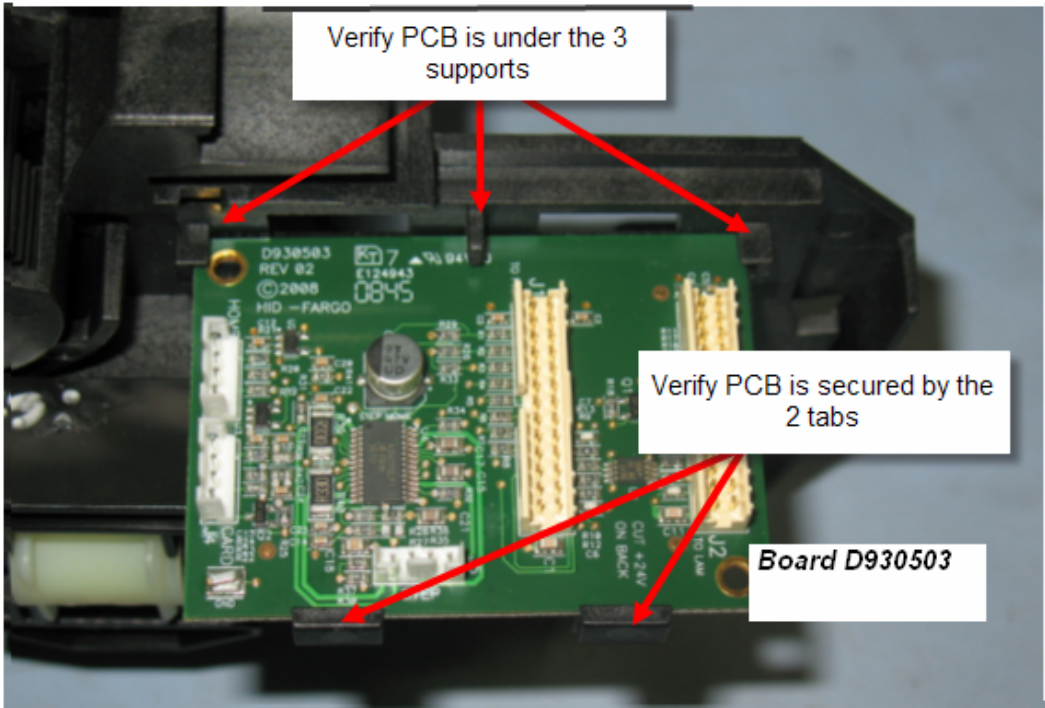
Remove/Replace the Headlift Sensor/Cable- D900113

		Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove the Flipper Covers.	
3	Pull the Headlift Sensor OUT towards the stepper motor gear to release from the frame. Sensor does not come out with breaking the sensor or tab. 	
4	Replace sensor by snapping IN the slot provided.	
5	Reverse assembly	
6	Procedure is complete	

Remove/Replace the IR Sensors D930609 (short) D930614 (tall)

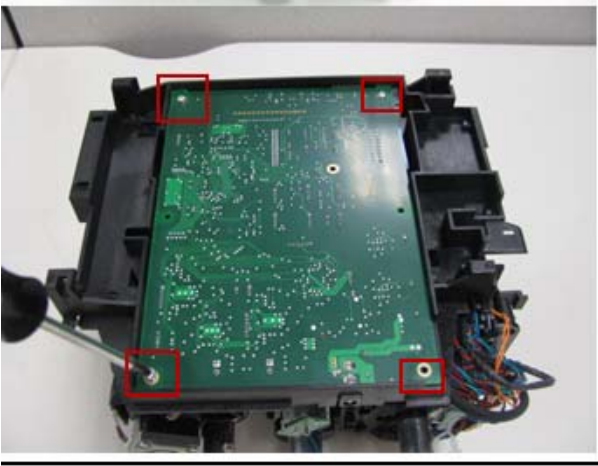
		Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure	
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.	
2	Remove the Flipper Covers.	
3	Push the sensor out using some pressure. This sensor snaps in and out. Do not use a metal tool or it may damage the sensor.	
4	Replace both upper and lower sensor at the same time.	
5	Connect to J4 on the PCB. Make note of wire routing. 	

Remove/Replace the PCB Output Controller -D930503

	Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Covers Important: This procedure can only be performed by authorized service personnel.
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Flipper Covers.
3	Disconnect all cable connections
4	Hold the 2 tabs BACK to release the board from the holding tabs. 
5	Replace with new board.
6	Procedure is complete

Parts Replacement- Lamination Module

Remove/Replace the Lamination Module Mainboard (A920221-11 & A920221-12)

	Tools needed: T10 Torx screwdriver Estimated Repair Time: 20 min Preparation: Remove the Lamination Module Covers Important: This procedure can only be performed by authorized service personnel. DTC4500 (single side) A920221-11 DTC4500 (dual side) A920221-12
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Remove the Lamination Module from the printer base to access the mainboard.
3	Turn the module up-side down to access the 4 screws (F000178) that hold the mainboard to the frame. Remove the 4 screws.   Use caution when removing the mainboard so the power connector does not get damaged. Slide the board away and out from the frame.

4	Remove all the wire connections. Tilt the mainboard up to access the wires. Wires are labeled with the numbered location for easy replacement. (Refer to Appendix E for wire/board locations) 
5	Replace with the new mainboard using reverse assembly. Note: Use caution not to damage the power connector.

Remove/Replace the Lamination Head Assembly Upper Assembly (D920022) & Lower Assembly (D920023)



This part is sold as one assembly which includes :
Platen Roller (D920012-Upper),
Lamination Roller (D920020- Lower),
Film LED (A000454)
Head Lift Sensor (A000126)
Thermocouple RTD/cable (D920151)
Motor (D900484-05) and the wires.

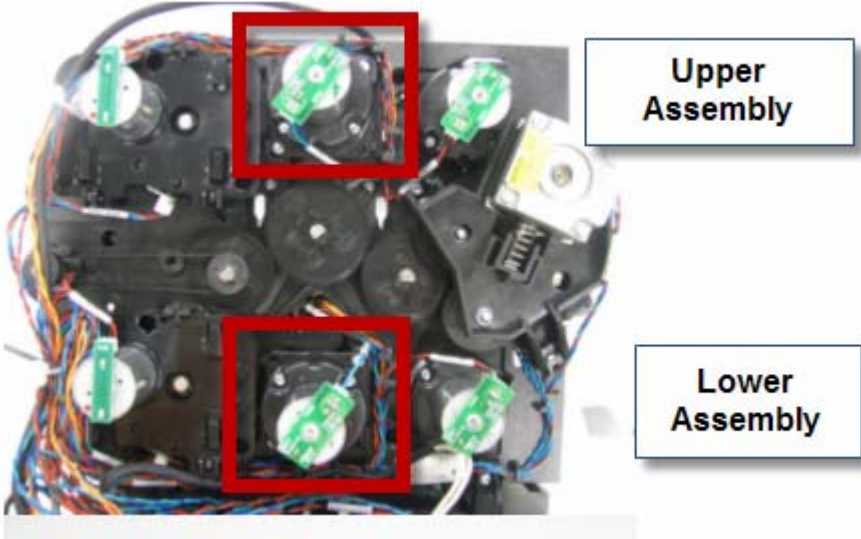
Tools needed: T10 Torx screwdriver

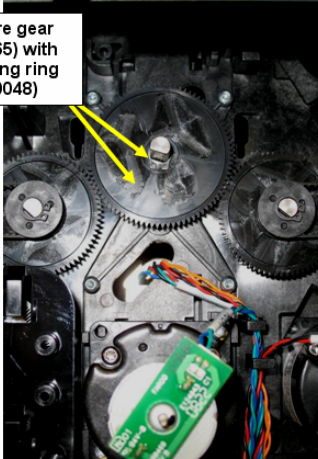
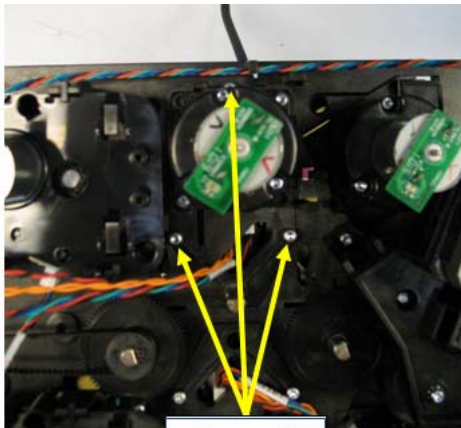
Estimated Repair Time: 35 min

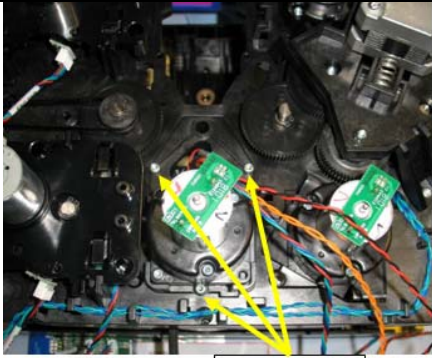
Preparation: Remove the Lamination Module Covers.

Remove the mainboard to access the wire removal procedure.

Important: This procedure can only be performed by authorized service personnel.

Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Both the Upper and Lower Lamination Assemblies follow the same procedure. 

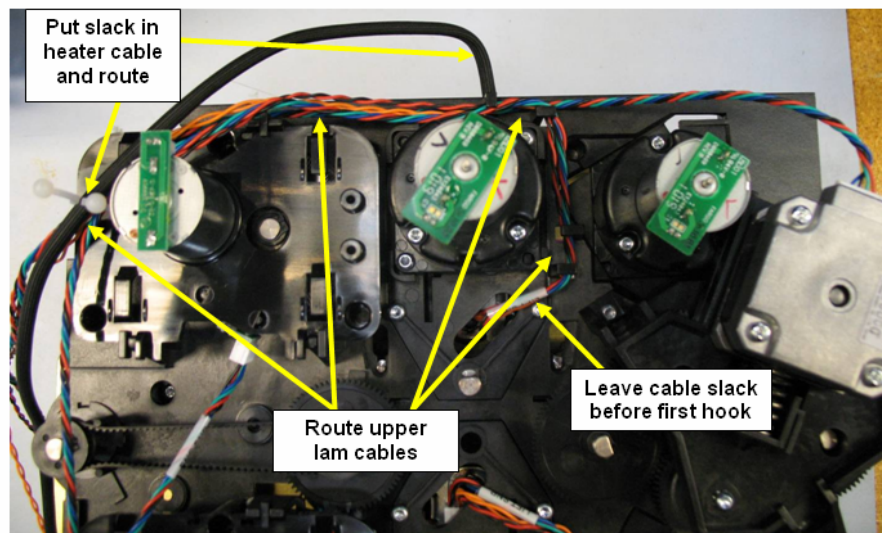
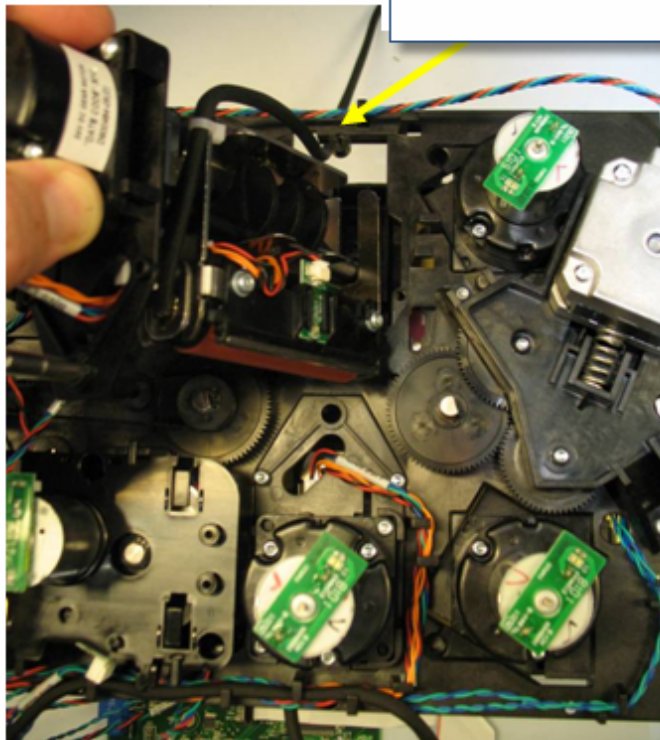
3	Remove the Retaining Ring (140048) and Platen Drive Gear (810265) Secure gear (810265) with retaining ring (140048) 
4	Remove the 3 screws (F000182) that hold the assembly to the frame.  Remove 3 screws F000182 Upper Module

	 Secure with screws (F000182) Lower Module
5	With the Mainboard loosened and tilted back the wire connections are now accessible. Locate the Lamination Head Assembly wire connections. Remove these wires from the mainboard. <u>Location of Upper Lam Head Cables</u> Lift Sensor D920156 connects to J4 Heater Cartridge D920113 connects to J9 RTD Cable D920151 connects to J18 <u>Location of Lower Lam Head Cables</u> Lift Sensor D920156) connects to J21 RTD Sensor Cable D920151 connects to J17 Heater Cartridge Cable D920113 connects to J3
6	Remove the Lamination Module assembly. Replace with new Lamination Module assembly using reverse assembly procedure.

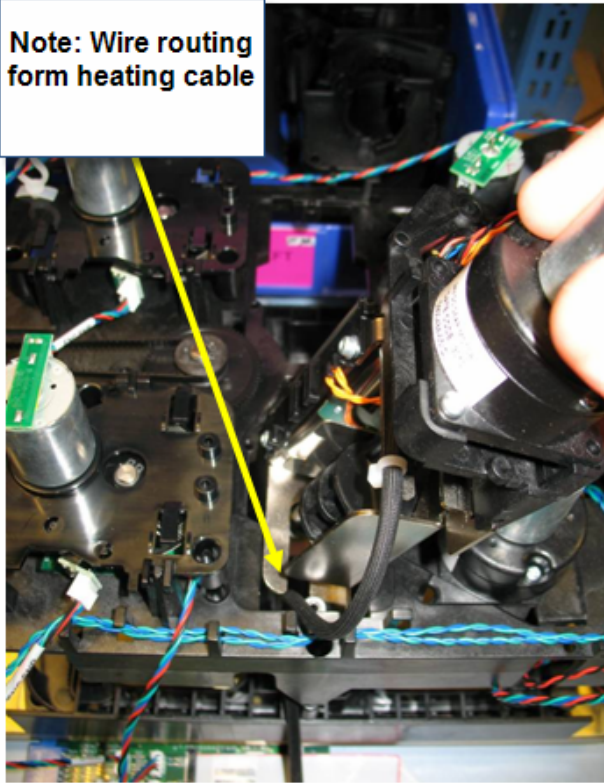
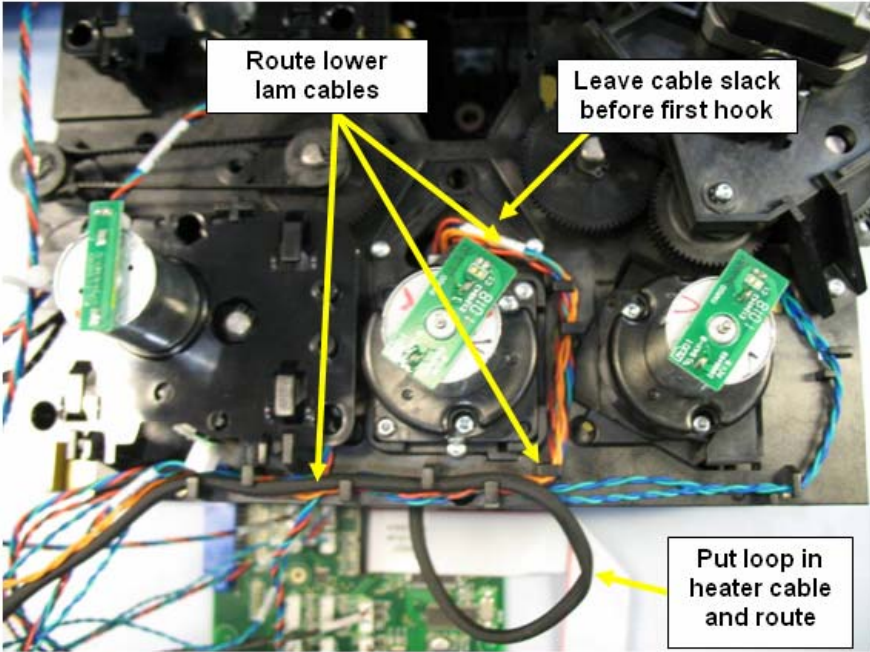
7

Make note of how the wires are routed. **UPPER ASSEMBLY**

Note: Wire routing for heater cable



Note: Ensure there is cable slack between the lam head and the upper wire clip

	to allow free movement of the lam head. Do not pinch any wires.
8	Make note of how the wires are routed. LOWER ASSEMBLY Note: Wire routing form heating cable  Route lower lam cables Leave cable slack before first hook  Put loop in heater cable and route Note: Ensure there is cable slack between the lam head and the lower wire clip

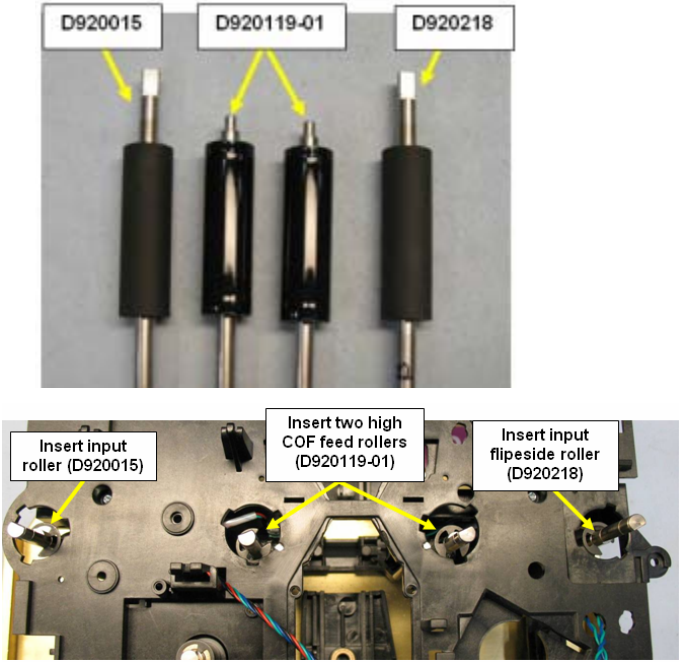
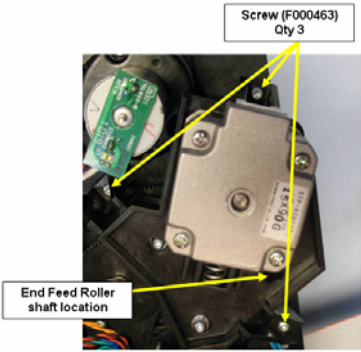
	to allow free movement of the lam head. Do not pinch any wires.
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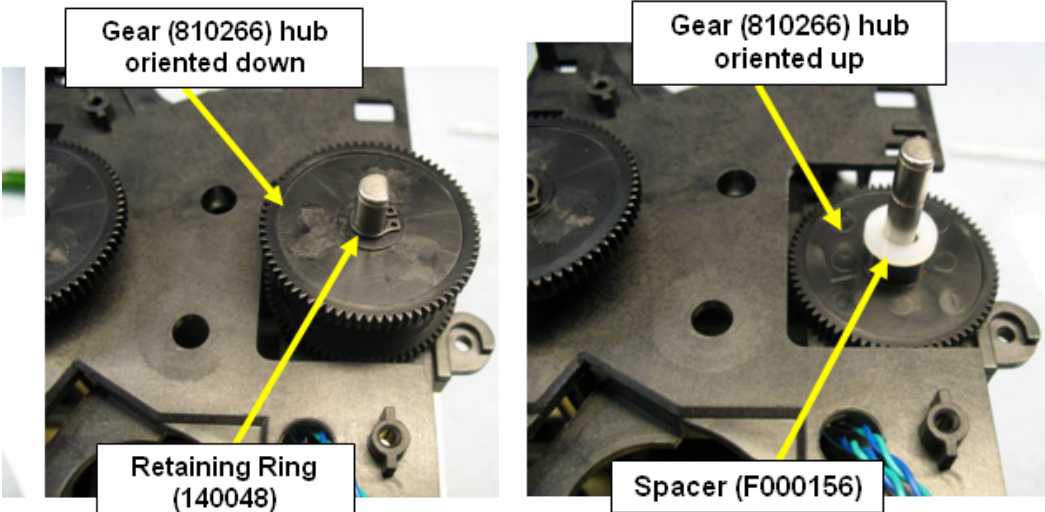
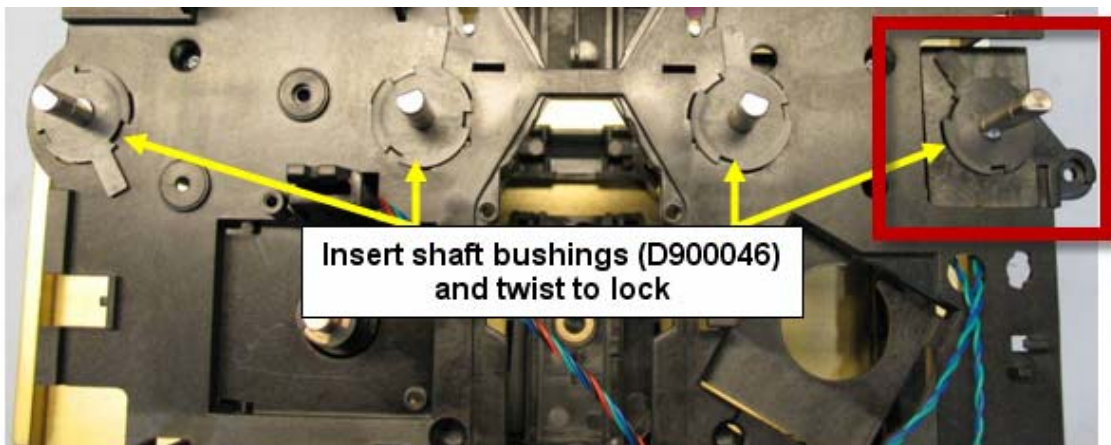
Remove/Replace the Lamination Module Rollers

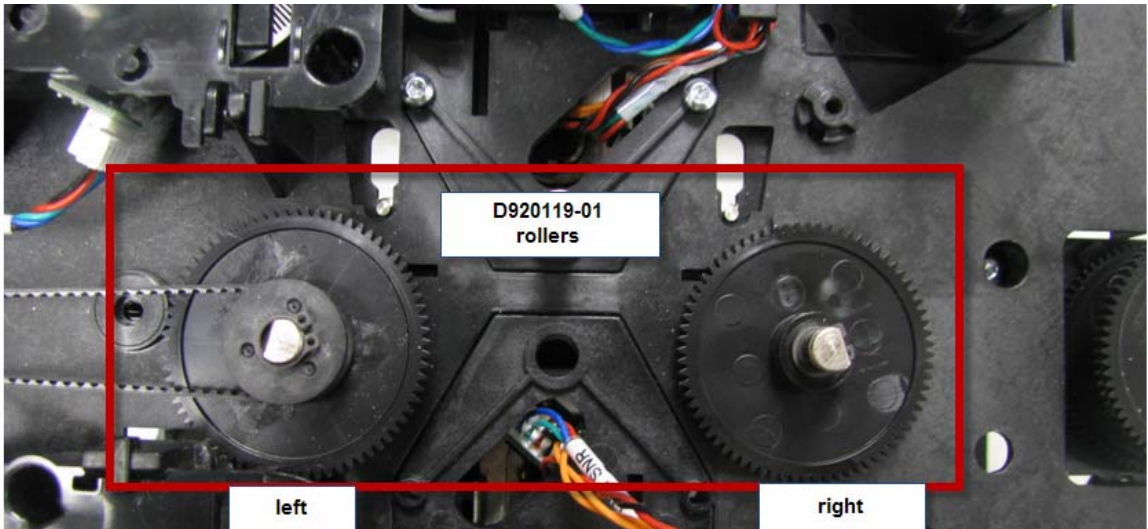
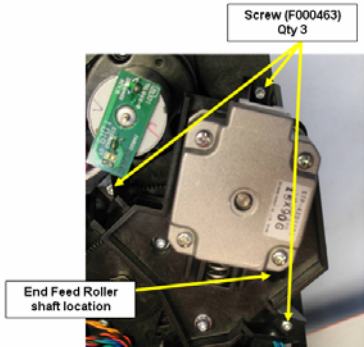
Roller- Feed High Cof (D920119-01)

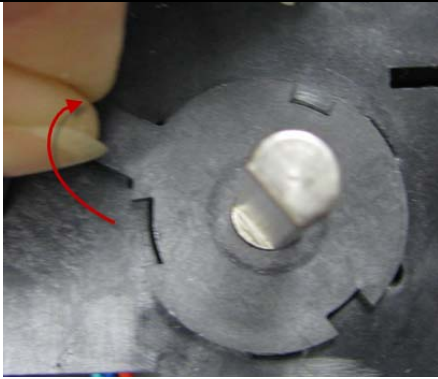
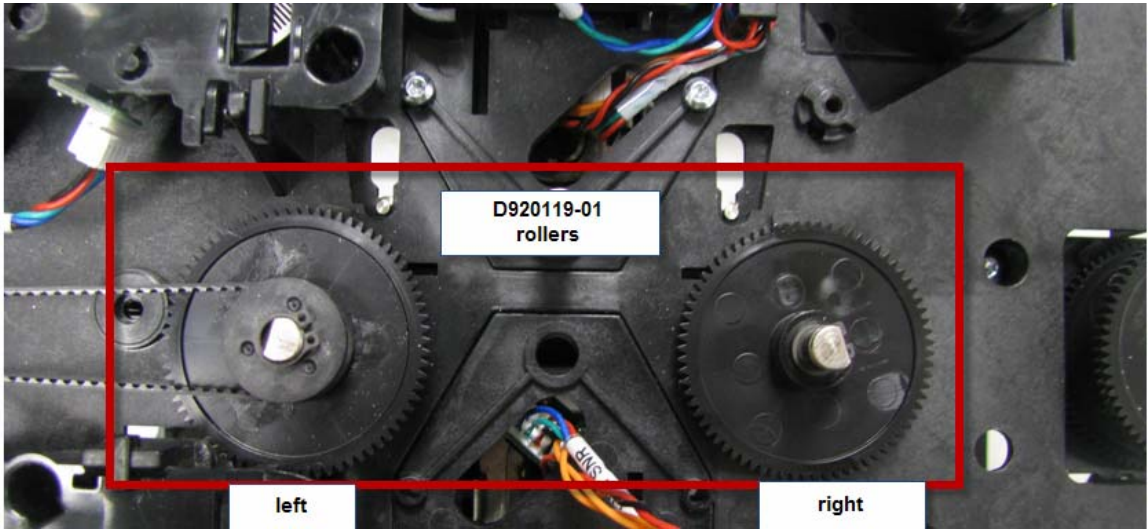
Roller- Input Flipside (D920218)

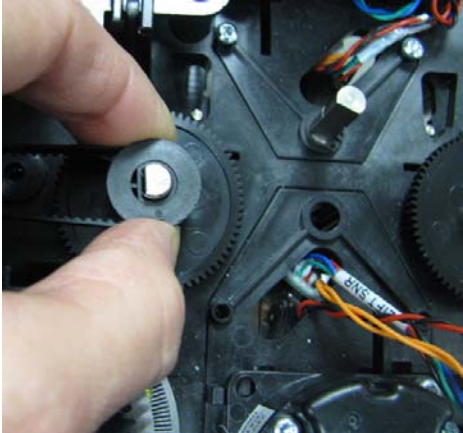
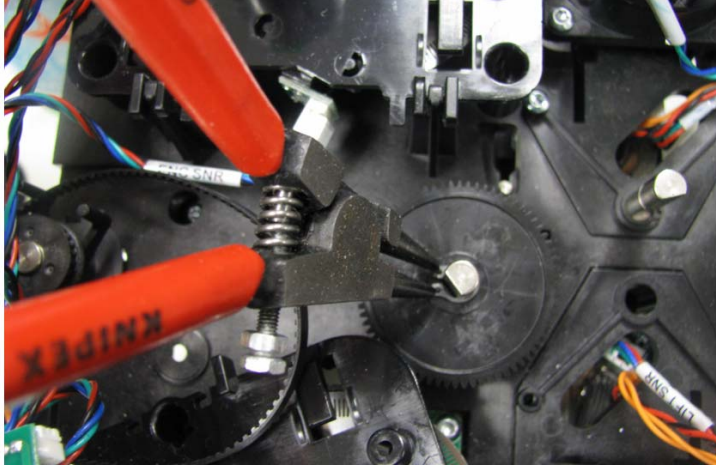
Roller- Input (D920015)

 Roller placement shown	Tools needed: T10 Torx screwdriver Estimated Repair Time: 30 min Preparation: Remove the Lamination Module Covers. Important: This procedure can only be performed by authorized service personnel.
Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
A-2	To replace D920218, Input Flipside Roller Remove the 3 screws (F000463) from the Stepper Motor Assembly.  Note: Wire Routing

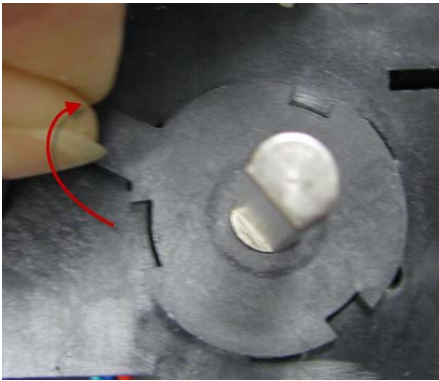
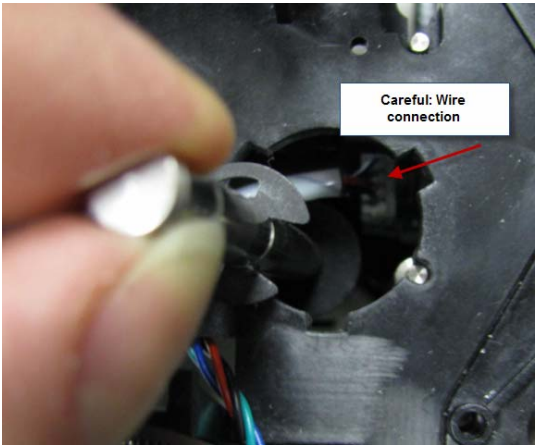
A-3	Remove the retaining ring (140048) gear (810266) , white spacer (F000156) and gear (810266)  Gear (810266) hub oriented down Gear (810266) hub oriented up Retaining Ring (140048) Spacer (F000156)
A-4	Unlock the shaft bushing (D900046) by twisting it counter clock wise. (TIP: Lift UP on the tab to unlock the pin underneath the tab.)  Insert shaft bushings (D900046) and twist to lock
A-5	Replace with the new roller (D920218). Insert and secure into the brass bushing on the frame. Use the E CLIP from the old roller. Make note of how this is placed on the roller.
A-6	Reverse assembly to complete the roller replacement.

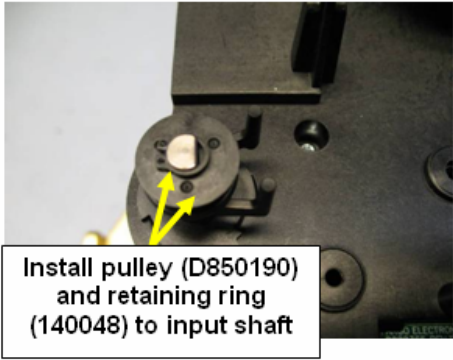
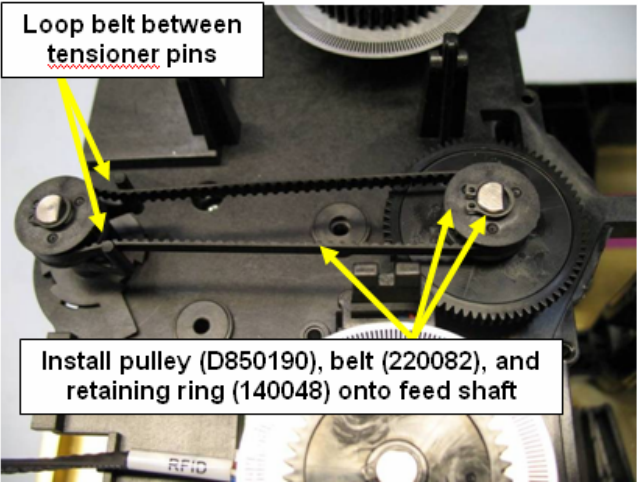
	Replacing the Rollers (continued)
B-1	To replace D920119-01, High COF Feed Roller (Right Roller) 
B-2	Remove the 3 screws (F000463) from the Stepper Motor Assembly in order to remove the roller on the right. 
B-3	RIGHT ROLLER: Remove the retaining ring (140048) and Gear (8180266).
B-4	Remove the Shaft Bushing. (D900046)

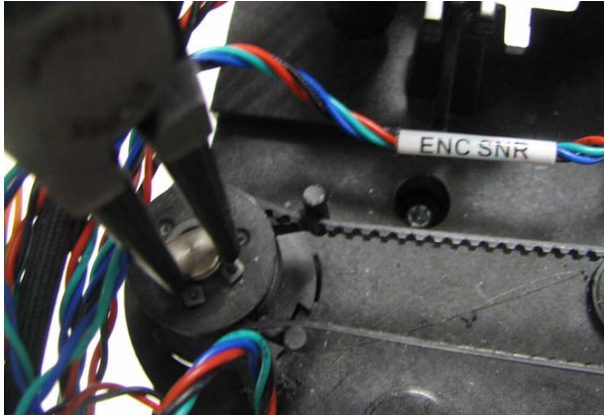
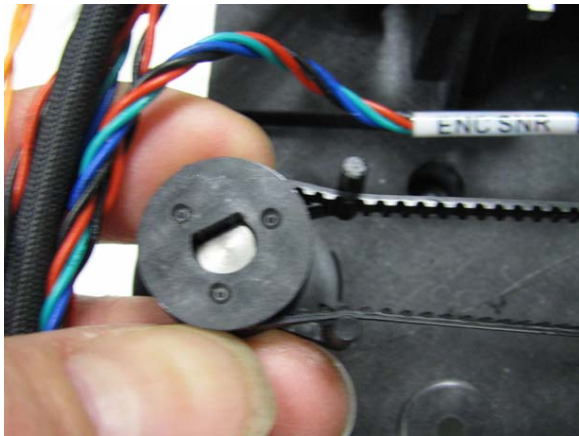
	 Unlock the shaft bushing (D900046) by turning it counter clock wise. (TIP: Lift UP on the tab to unlock the pin underneath the tab.)
B-5	Pull out the roller (D920119-01).
B-6	Replace with the new roller (D920119-01). Use the E CLIP from the old roller. Make note of how this is placed on the roller.
B-7	Reverse assembly to complete the roller replacement.
	Replacing the Rollers (continued)
C-1	To replace D920119-01, High COF Feed Roller (Left Roller) 
C-2	Remove the Lower Rewind Assembly to access the Left roller (D910119-01). Remove/Replace the Rewind Motor Assembly

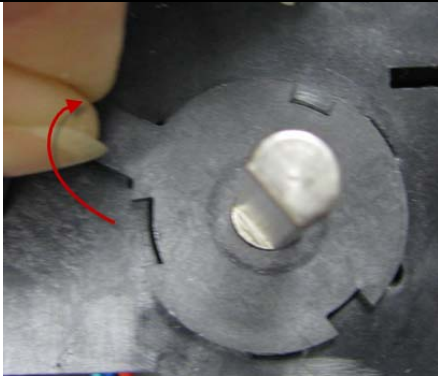
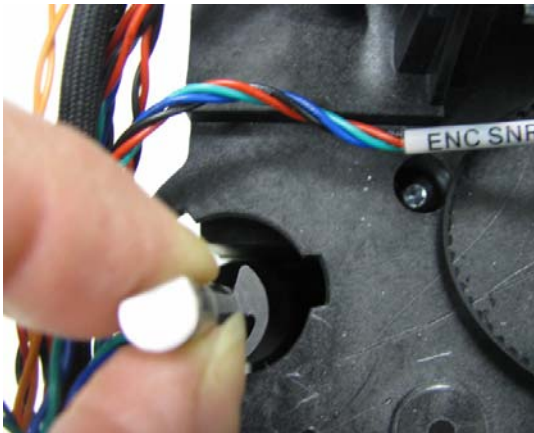
C-3	LEFT ROLLER: Remove the retaining ring (140048) 
C-4	Remove the pulley (D850190).  TIP: When replacing the roller also replace the pulley (D850190) for best results.
C-5	Remove the next retaining ring (140048). 

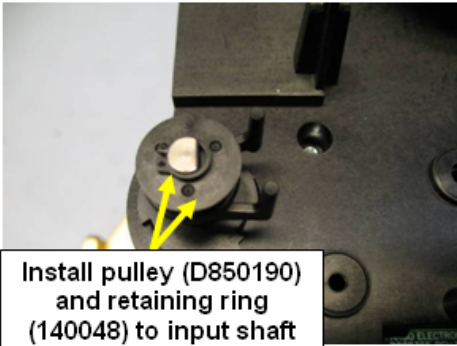
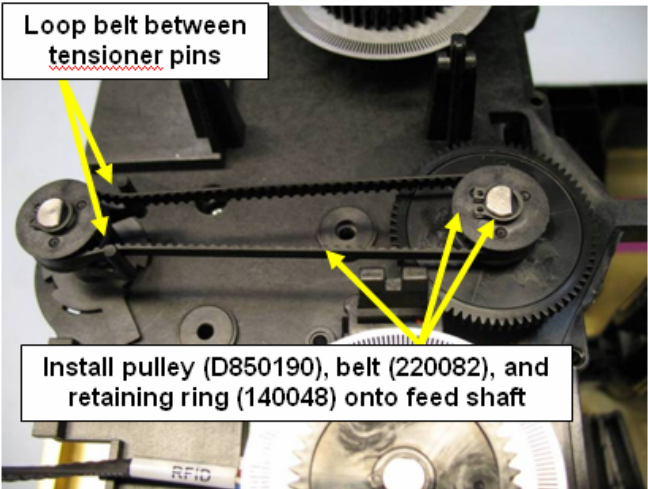
C-6	Remove the gear (810266). 
C-7	Remove the wave washer (130951).  NOTE: Orientation of wave washer- concave side down when replacing.

C-8	Remove the Shaft Bushing. (D900046)  Unlock the shaft bushing (D900046) by turning it counter clock wise. (TIP: Lift UP on the tab to unlock the pin underneath the tab.)
C-9	Remove the roller (D920119-01) 
C-10	Replace with the new roller (D920119-01). Use the E CLIP from the old roller. Make note of how this is placed on the roller.
C-11	Reverse assembly to complete the roller replacement. A new belt (220082) may be replaced if necessary.
C-12	TIP: Orient the flat side of the shaft facing RIGHT on both rollers when replacing the pulley.

	 Install pulley (D850190) and retaining ring (140048) to input shaft  Loop belt between tensioner pins Install pulley (D850190), belt (220082), and retaining ring (140048) onto feed shaft
C-13	Shows order of parts when replacing. 

	Replacing the Rollers (continued)
D-1	To replace D920015, Input Feed Roller. Remove the Rewind Motor to access the roller. <u>Remove/Replace the Rewind Motor Assembly</u>
D-2	Remove the retaining ring (140048) 
D-3	Remove the pulley. (D850190) Pull up with the belt attached. Remove the Belt Tensioner (D920168)  TIP: When replacing the roller also replace the pulley (D850190) for best results.
D-4	Remove the Shaft Bushing. (D900046)

	 Unlock the shaft bushing (D900046) by turning it counter clock wise. (TIP: Lift UP on the tab to unlock the pin underneath the tab.)
D-5	Remove the Roller (D920015) 
D-6	Replace with the new roller (D920015). Use the E CLIP from the old roller. Make note of how this is placed on the roller.
D-7	Reverse assembly to complete the roller replacement. A new belt (220082) may be replaced if necessary.
D-8	TIP: Orient the flat side of the shaft facing RIGHT on both rollers when replacing the pulley.

	 Install pulley (D850190) and retaining ring (140048) to input shaft  Loop belt between <u>tensioner pins</u> Install pulley (D850190), belt (220082), and retaining ring (140048) onto feed shaft
D-9	Shows order of parts when replacing. 

Remove/Replace the Rewind Motor Assembly

OR

RFID Board A000365-01

OR

Encoder Sensor A000126



Tools needed: T10 Torx screwdriver

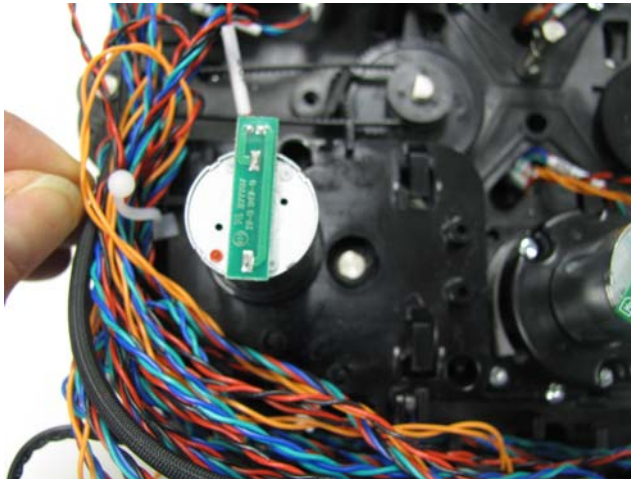
Estimated Repair Time: 30 min

Preparation: Remove the Lamination Module Covers.

Important: This procedure can only be performed by authorized service personnel.

NOTE: The Dual Side Lamination Module uses 2 Rewind Motor Assemblies.

****Picture shown below is the LOWER Rewind Assembly.**

Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Unclip the Wire bundle for better access. 

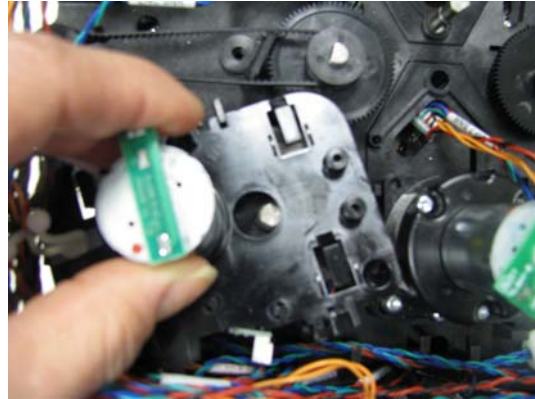
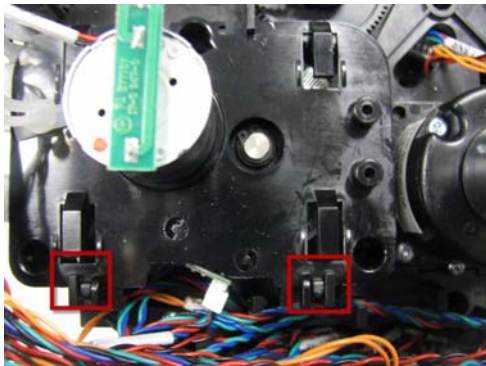
3

The Rewind Mount is attached at the bottom then snapped at the top.

Unsnap the top of the assembly then pivot the assembly to the LEFT to release the encoder sensor from the encoder wheel. This releases the assembly from the frame.

TIP: When reassembling use your finger to guide the encoder sensor (from underneath) to the proper position. Slide in from the left at an angle then turn to match the snap tabs.

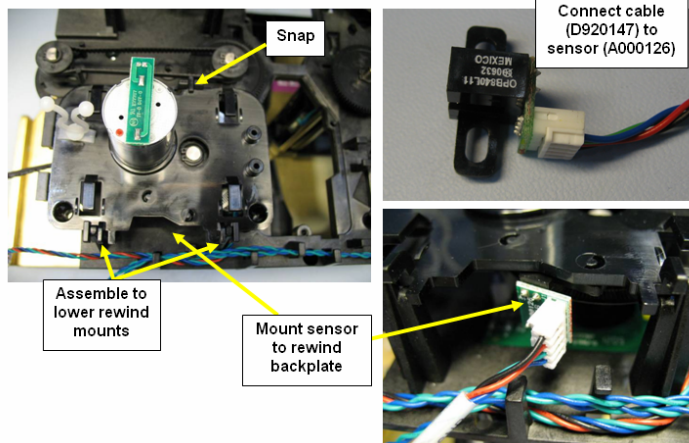
CAUTION: Take care not to bend the assembly straight up as the encoder wheel may be damaged.



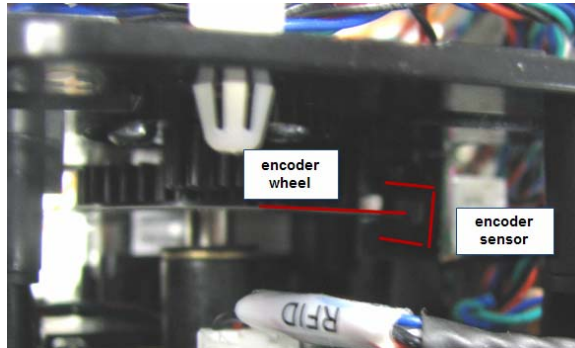
OR

The encoder sensor (**A000126**) can be removed first so the encoder wheel does not get damaged. Carefully use a small flat screwdriver to pry the sensor from the frame. Follow direction above.

When replacing the sensor, line up the sensor from underneath then snap in place.

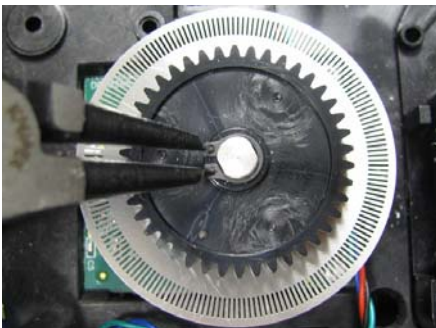


Verify the Encoder Wheel is positioned properly between the Encoder Sensor.



Replace the RFID PCB (A000365-01) Remove the Rewind Assembly as described above.

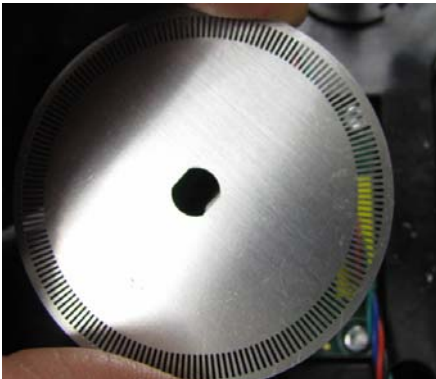
Remove the Retaining Ring (140048)



Gear (D920170)



Remove the Encoder Wheel (810492)



2 screws hold the PCB (A000365-01)



Slide the RFID PCB to the right. The PCB is held by tab on the left of the frame.
Replace with new PCB A000365-01.
Reverse Assemble.

Appendix A

Replacing the DTC1000-DTC4000-DTC4500 Printhead

The guide serves to instruct the user about replacing the Printhead. This procedure can only be performed by authorized service personnel.



Caution: Turn OFF the Printer and unplug the power cord from the Printer.



Danger: Wear proper eye protection to perform the procedures in this section.

Reverse the disassembly steps to reassemble the Card Printer. ESD precautions are necessary when handling electronics assemblies.

DTC1000-DTC4000-DTC4500 Printhead procedure

The guide serves to instruct the user about replacing the Printhead. This procedure can only be performed by authorized service personnel.

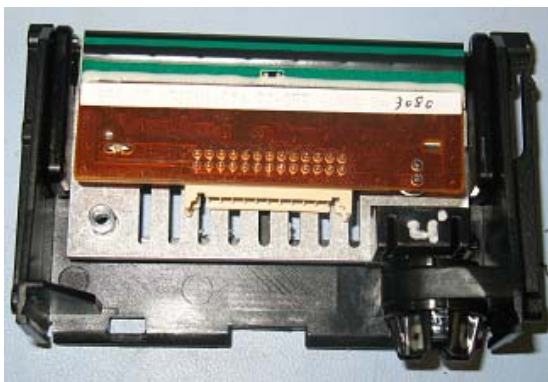


Caution: Turn OFF the Printer and unplug the power cord from the Printer.



Danger: Wear proper eye protection to perform the procedures in this section.

Reverse the disassembly steps to reassemble the Card Printer. ESD precautions are necessary when handling electronics assemblies.



Tools needed: Flathead screwdriver

Torx Wrench (included in kit)

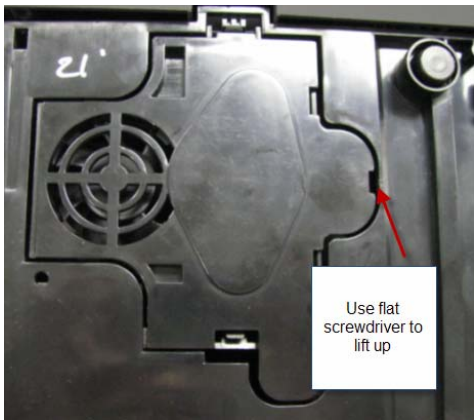
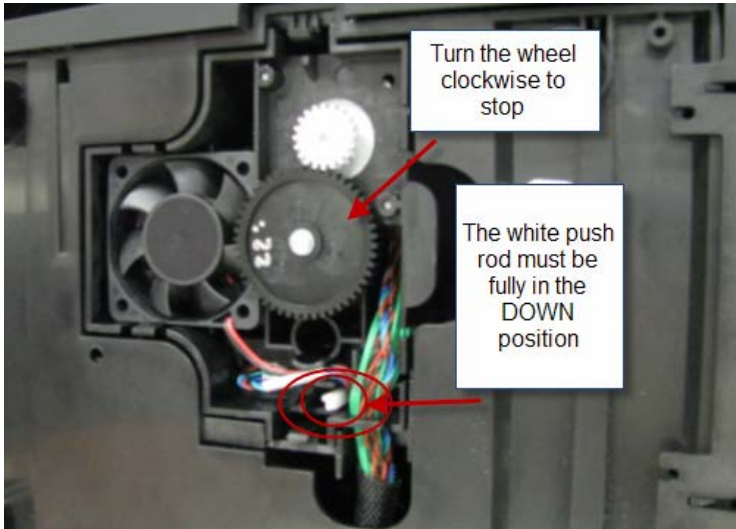
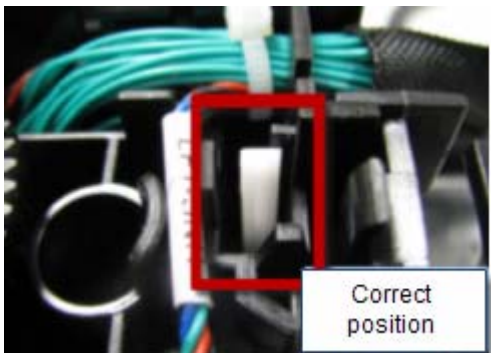
Estimated Repair Time: 20 minutes

Preparation: Remove Printhead mount

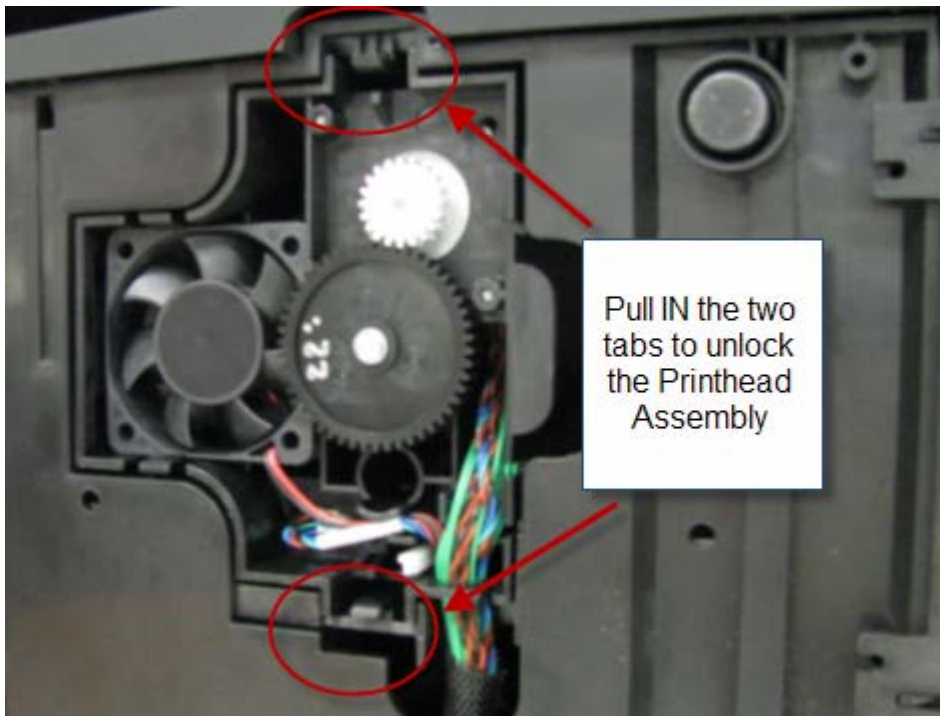
Important: This procedure can only be performed by authorized service personnel.

Make note of the resistance value on the new printhead; verify this value in the Advanced Settings driver option. Refer to the User Guide for more information.

Step	Procedure
1	 Caution: Turn OFF the Printer and unplug the power cord from the Printer.
2	Turn the printer over to access the Headlift cover.

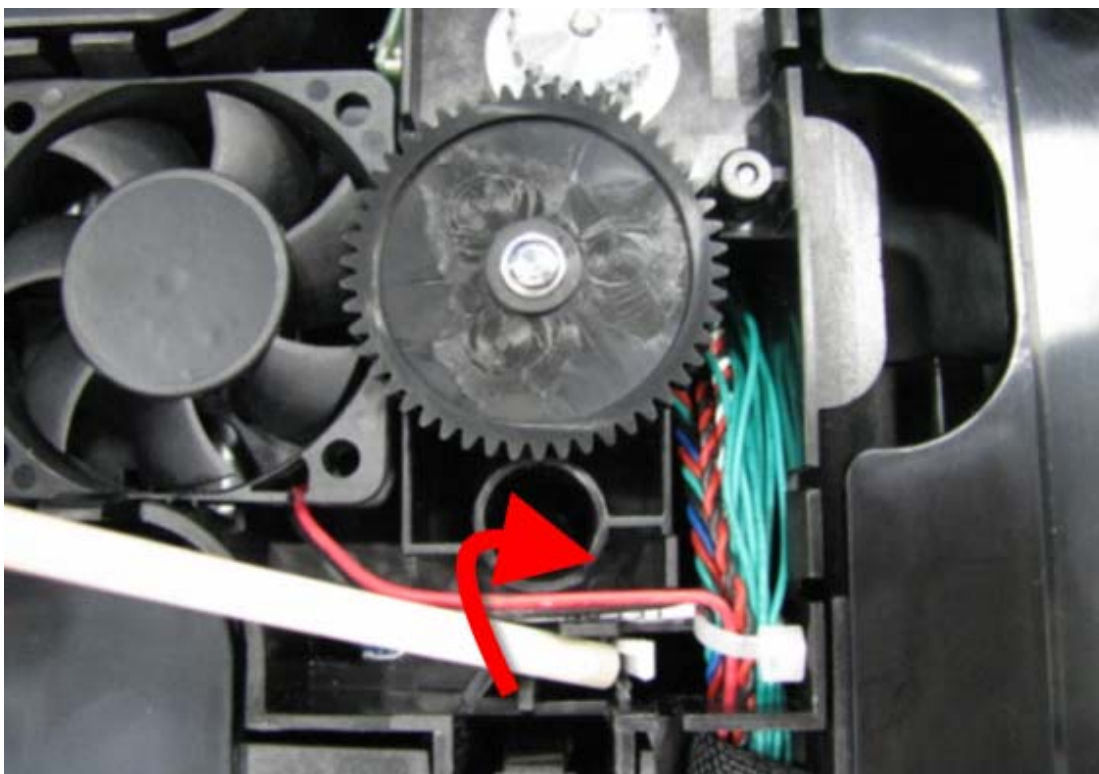
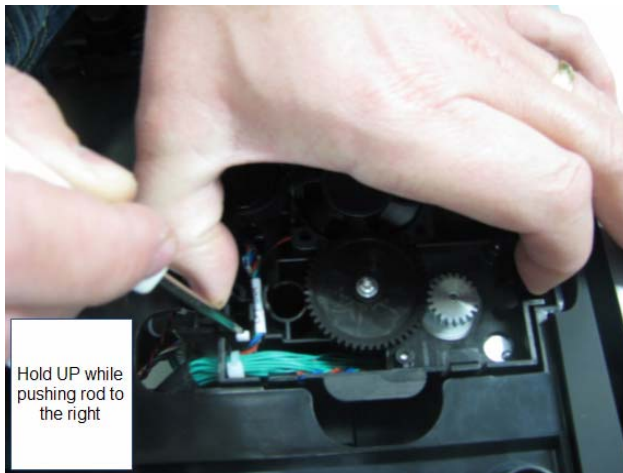
3	Use a flathead screwdriver to lift the cover from the frame.  Use flat screwdriver to lift up
4	<u>VERY IMPORTANT STEP</u> Turn the gear clockwise until the Push Rod is in the DOWN position. (in relation to the printer base)  Turn the wheel clockwise to stop The white push rod must be fully in the DOWN position  Correct position correct position  Wrong position wrong position

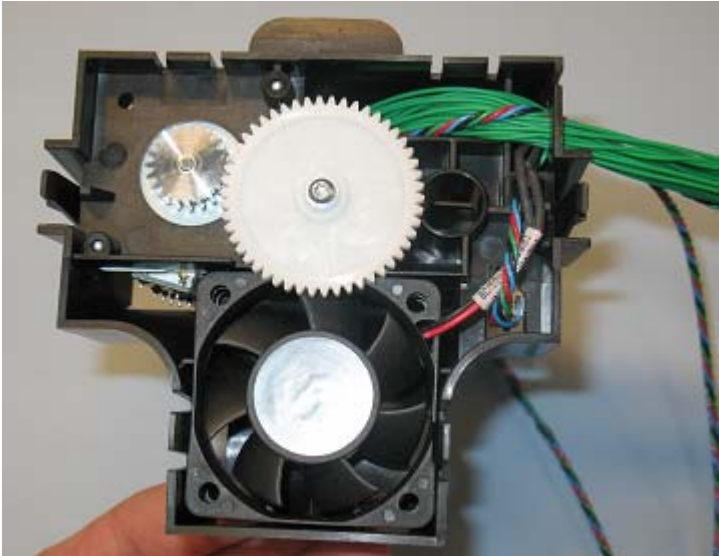
- 5 Pull the 2 tabs IN and pull UP to **loosen** the Printhead assembly.
Hold UP until you can push the white rod to the right.
Do not pull up until the push rod has been moved.
See step 6 below.



6

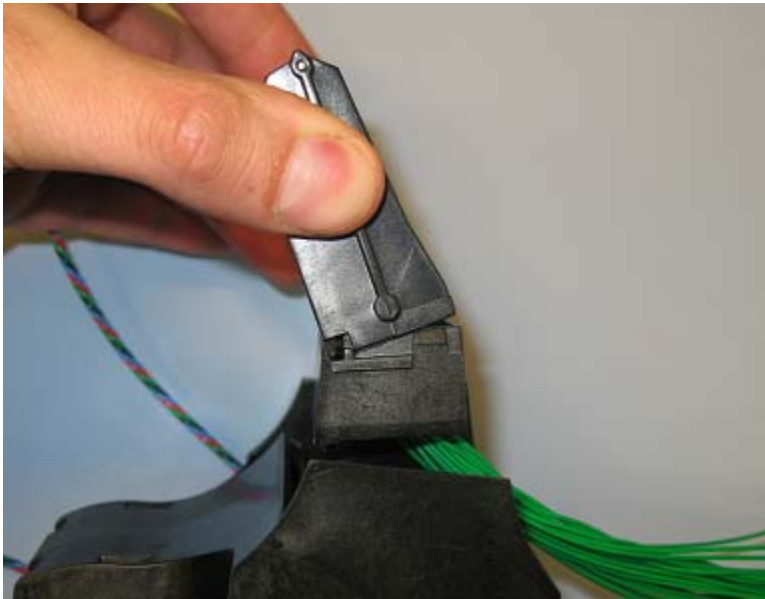
Unlock the push-rod by moving it from the left to the right side of the tab.



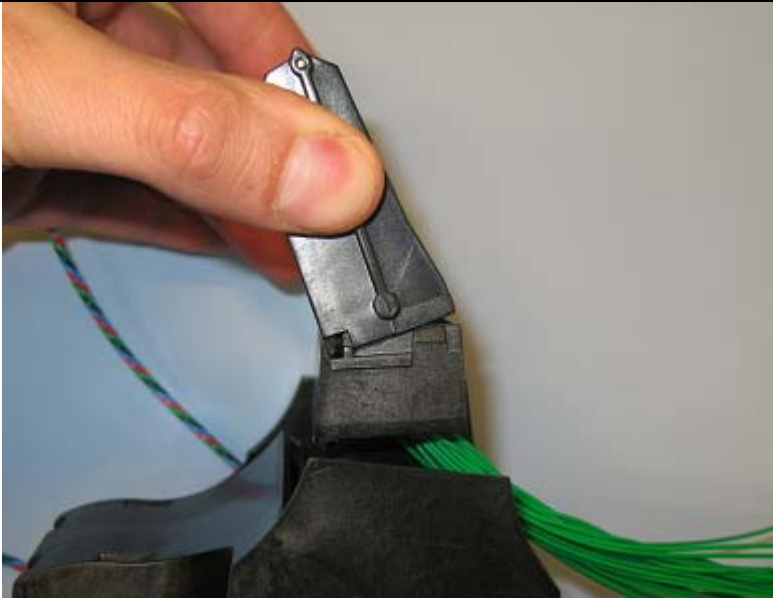
7	The printhead assembly can now be pulled up and out from the frame.  A close-up photograph showing a person's hand pulling a black plastic printhead assembly out of a printer's frame. The assembly contains a large black gear and a smaller silver gear. A bundle of green and blue wires is visible at the bottom of the assembly.
8	The back side of Printhead assembly shown has been removed from the printer.  A photograph showing the back side of the printhead assembly. It features a large white gear, a smaller silver gear, and a black fan. A bundle of green and blue wires is visible on the right side. The assembly is held by a hand.

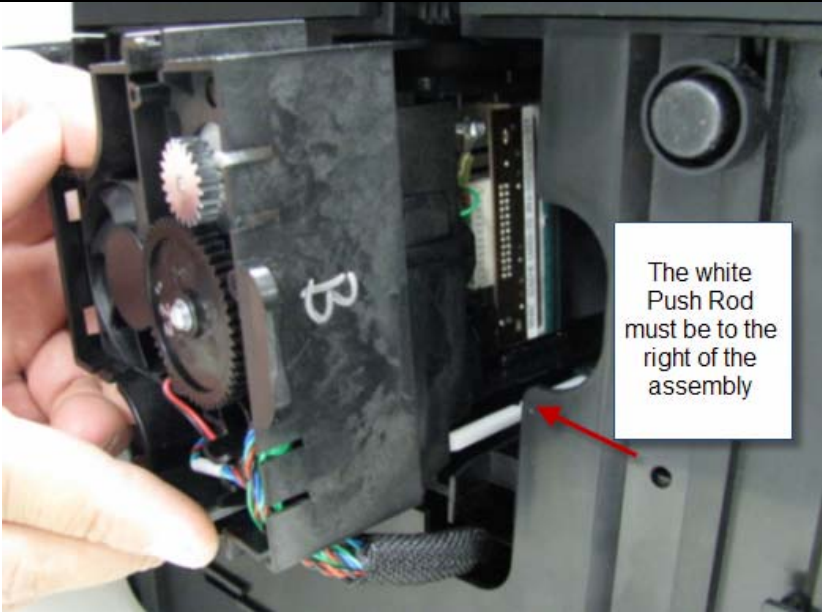
9

Grasp the printhead mount and rotate to release the printhead from the main assembly.

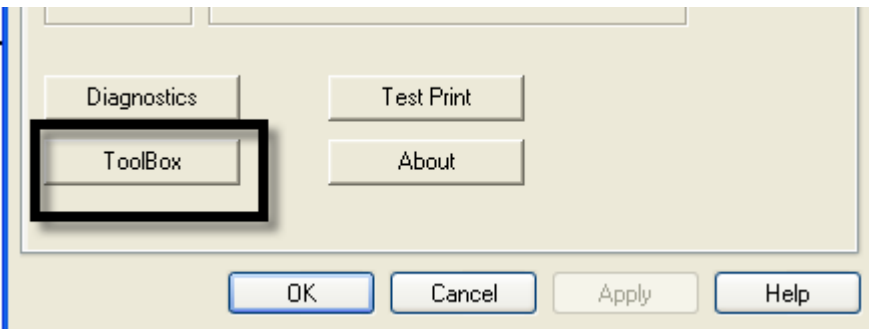
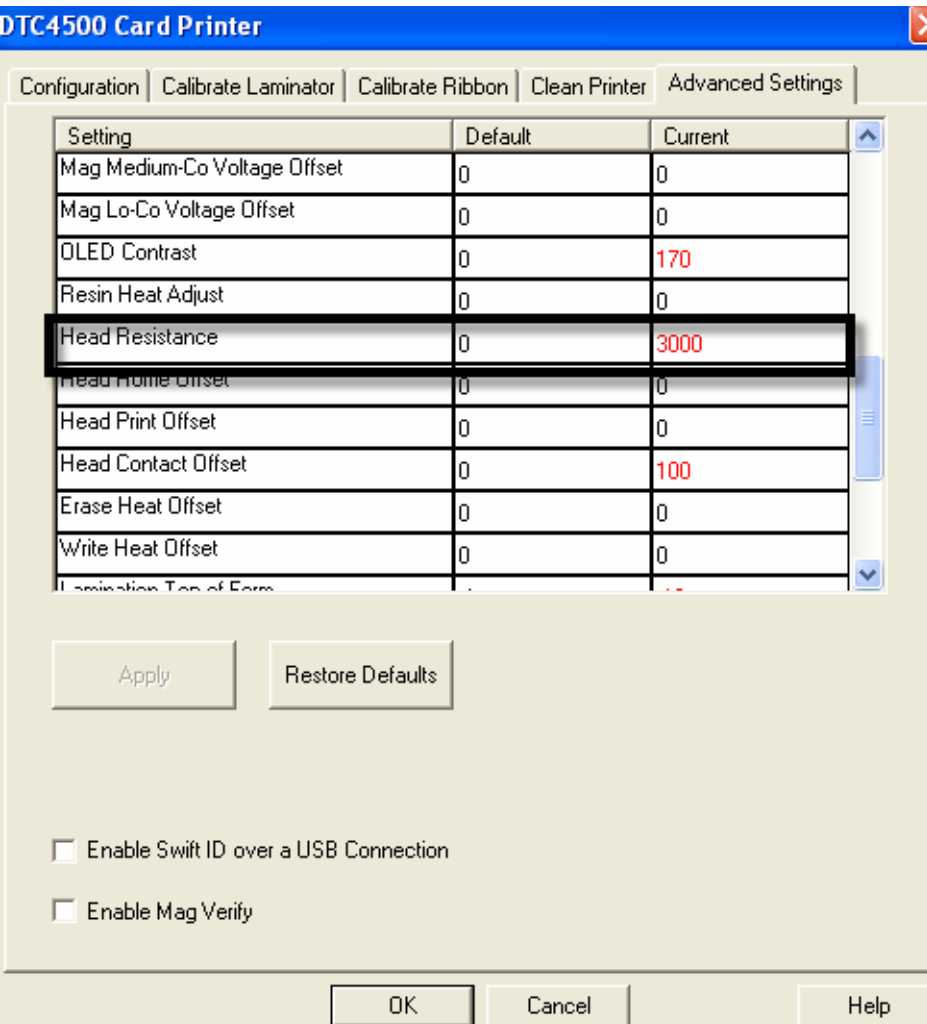


10	Remove the cable (D930602). Be careful not to damage the pins. Remove the Torx screw (F000171) and release the ground cable. Leave the wires in the main assembly. 
11	Before installing the new Printhead make note of the R=xxxx value. This number will be used after the Printhead is installed and ready to make the final adjustment. See Advanced Adjustments below. 
12	Replace with the new printhead. Install the printhead assembly holes into the tabs and tilt to snap the printhead assembly into place. Verify the printhead is secure in the mount.

	
13	Reconnect the cable and ground cable. 
14	<u>VERY IMPORTANT STEP</u> Reinstall the printhead mount assembly into the printer. Line up the Printhead assembly. IMPORTANT NOTE: Verify the white Push Rod is to the right of the assembly before reinserting.

	 The white Push Rod must be to the right of the assembly Verify the push-rod is in the correct position. It will rest to the right side of the tab. 
15	CAREFULLY re-insert the completed printhead assembly. Do not scratch the printhead surface.
16	Replace the Headlift cover by snapping back into place.
17	Procedure is complete.

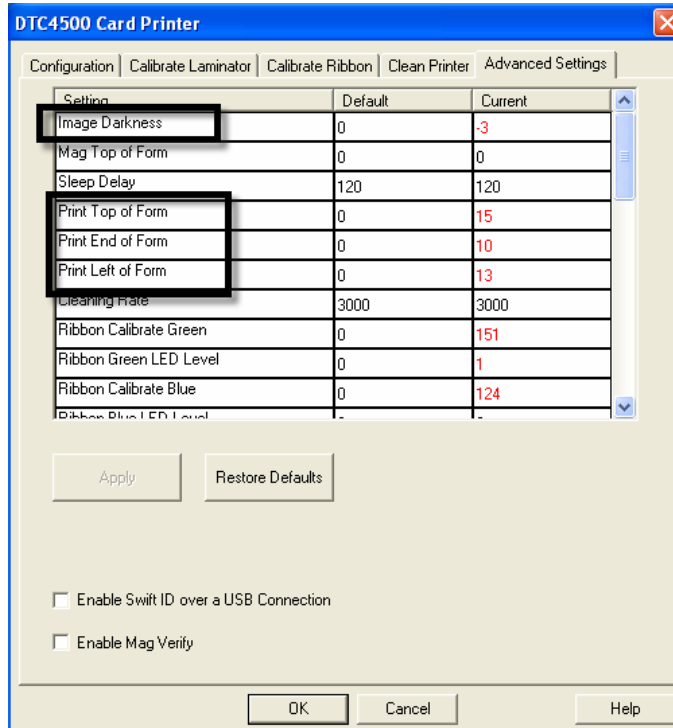
Advanced Adjustment

- 1 Open the Toolbox to access Advanced Settings tab from the printer driver.

- 2 Use the R=xxxx number from step 11. Add this number to the CURRENT box and click OK to save OR proceed to the TOF, EOF or LOF adjustments below.


Setting	Default	Current
Mag Medium-Co Voltage Offset	0	0
Mag Lo-Co Voltage Offset	0	0
OLED Contrast	0	170
Resin Heat Adjust	0	0
Head Resistance	0	3000
Head Home Offset	0	0
Head Print Offset	0	0
Head Contact Offset	0	100
Erase Heat Offset	0	0
Write Heat Offset	0	0
Lamination Top of Form	-	-

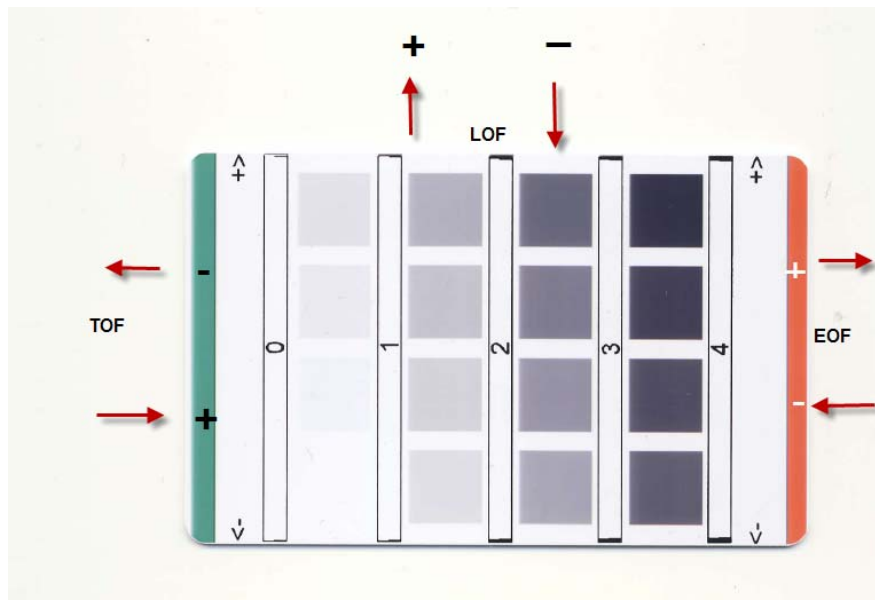
- 3 Adjust the Image Darkness, Print Top of Form (TOF), Print End of Form (EOF), Print Left of Form (LOF) as needed by increasing or decreasing the CURRENT setting numbers.

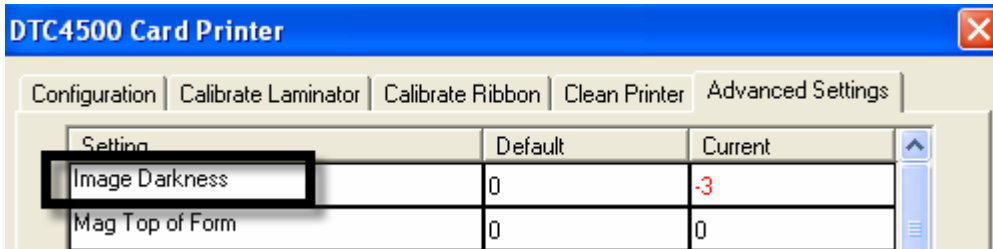
NOTE: Refer to the Advances Settings section in the User Guide.



- 4 Print the ALIGNMENT test card from the Printer display TOOLS  to fine tune the image placement.

Refer to the User Guide for using TOOLS.



5	To adjust IMAGE DARKNESS: Increase the number to darken the image density or decrease the number to lighten the image density.  <table><tr><th>Setting</th><th>Default</th><th>Current</th></tr><tr><td>Image Darkness</td><td>0</td><td>-3</td></tr><tr><td>Mag Top of Form</td><td>0</td><td>0</td></tr></table>	Setting	Default	Current	Image Darkness	0	-3	Mag Top of Form	0	0
Setting	Default	Current								
Image Darkness	0	-3								
Mag Top of Form	0	0								
6	Procedure is now complete.									

Appendix B

Lamination Module Field Upgrade Installation Guide

DTC4500 Single and Dual Side Printer

Parts included: Lamination Module, Top Cover, Input Bump Latch, Input Lam Cover, Output Bin, screws (F000178- 3)

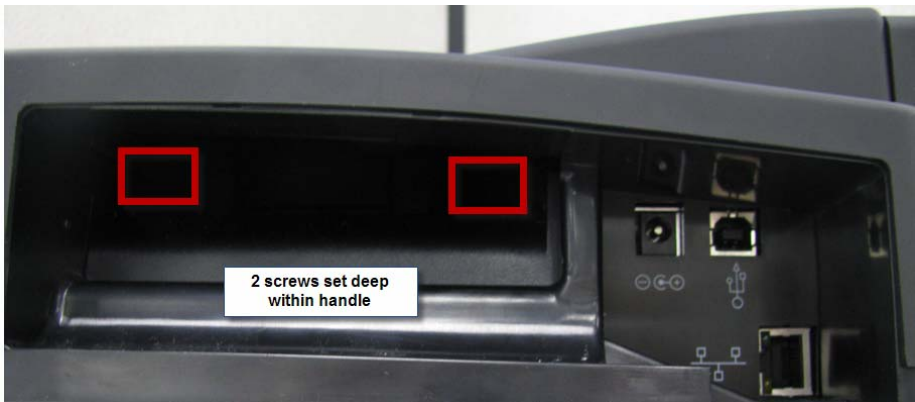
Tools needed: Torx Wrench (included in kit) or T10 Torx screwdriver, small flathead screwdriver (use a magnetized screwdriver for the hard to reach screws)

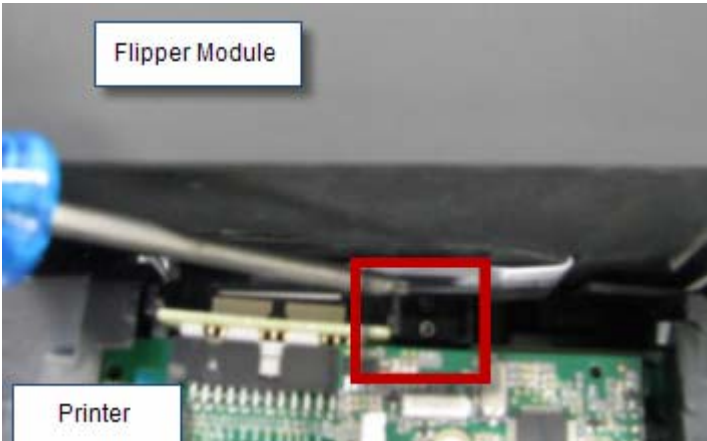
Estimated Repair Time: 30 minutes.

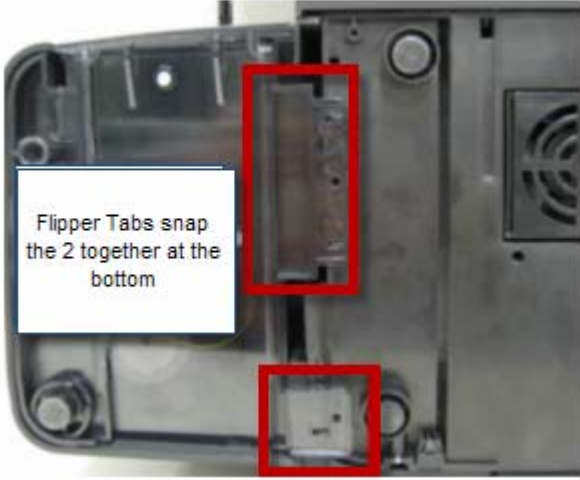
Step	Procedure for a DTC4500 Single Side Printer (if you are upgrading a Dual-Sided printer please skip ahead to the procedure for this configuration)
1	 Caution: Power off the printer by unplugging the power cord from the Printer.
2	 DTC4500 Single Side Printer shown in this picture. Remove the card output hopper. Squeeze in at the top to unlatch the tabs from the printer frame. (NOTE: This part will not be used with the Lamination Module Upgrade.)

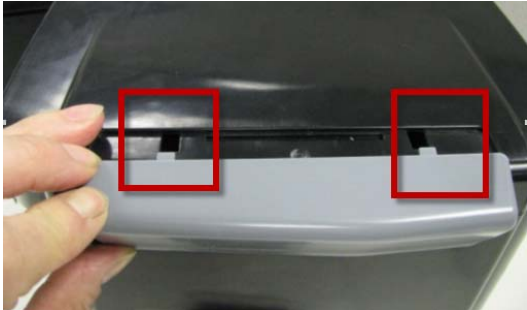
3	Remove the top cover. From the back of the printer locate and remove the 2 screws (F000171) within the handle. 
4	Lift up the top cover from the front first then the back. Remove and set aside. (NOTE: This part will not be used with the Lamination Module upgrade.) 

5	Remove the plate from the output side of the printer. There is one screw that holds this plate in place. 
6	Once the Single Side printer is prepared to this point please proceed to INSTALLING THE LAMINATION MODULE for the Lamination Module install.

Step	Procedure DTC4500 Dual Side Printer
1	 Caution: Power off the printer by unplugging the power cord from the Printer.
2	 DTC4500 Dual Side Printer shown in this picture.
3	Remove the Flipper Module from the DTC4500 Dual Side printer before installing the Lamination Module. Refer to steps 4-10 below for this procedure. (NOTE: The Flipper Module will not be used with the Lamination Module upgrade.)
4	Remove the top cover. From the back of the printer locate and remove the 2 screws (F000171) within the handle. 

5	Lift up the top cover from the front first then the back. Remove and set aside. (NOTE: This part will not be used with the Lamination Module Upgrade.) 
6	Remove the one (1) screw that attaches the Flipper Module to the printer. 
7	Remove the Flipper Module cable from the printer board contact. 

8	Turn the printer over and un-snap the tabs that hold the Flipper Module to the printer.  Flipper Tabs snap the 2 together at the bottom
9	Remove the Flipper Module from the printer. Slide off to release the electrical connector. Careful not to bend or damage the connector. Remove and set aside. NOTE: This part (Flipper Module) will not be used with the Lamination Module Upgrade. 
10	The printer is now prepared to have the Lamination Module attached.

11	Installing the Lamination Module ▪ The Lamination Module will come with the covers attached to the module that will need to be removed from the module before the Lamination base is set on the printer frame. ▪ This procedure is the same for both the single and dual printer lamination upgrade. Important note: Do not force any parts of the covers during assembly. They are made to snap together.
12	Remove the Input Cap. Tilt forward to unlatch the top and then bottom tabs. 
13	Remove the Top Cover. Lift up from the front to unlatch the back tabs. 
14	Remove the Input Panel. Open the Laminator front door to allow for clearance. Tilt out to release the panel. 

15

Release the front and back side TABS. Use a small flathead screwdriver to open a space on the BACK side to release the back tab.



Lift the panel up and out.

Make note of how the inner latch is fitted to the frame when reassembling.

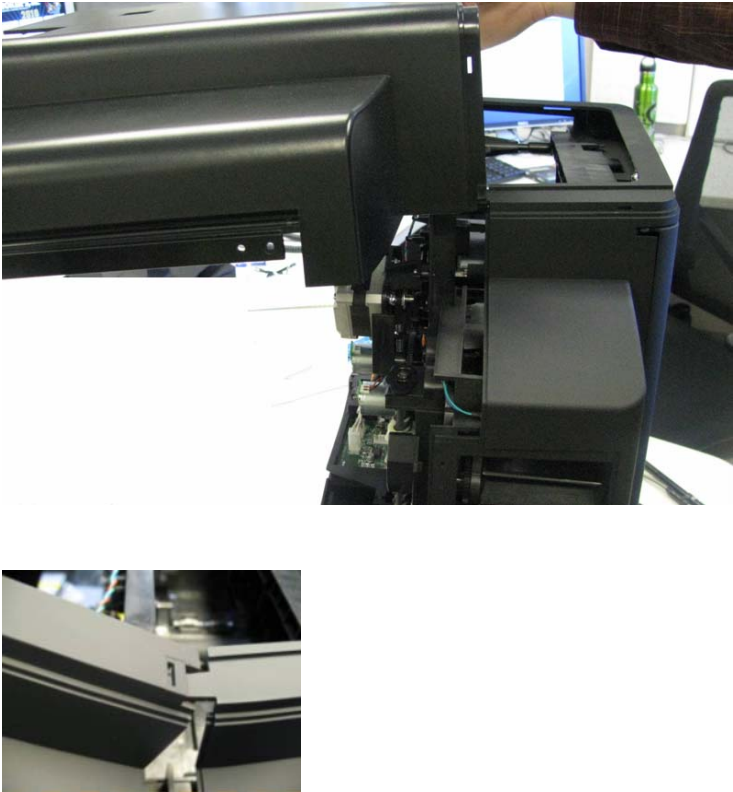


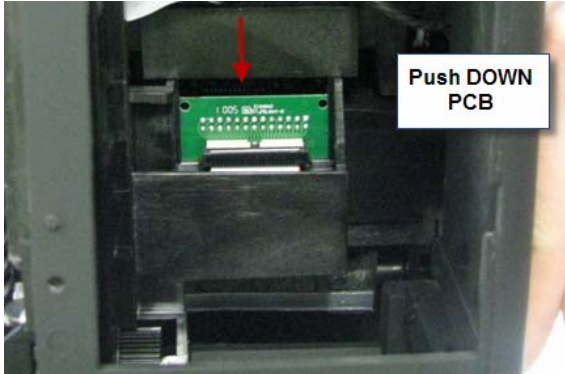
16

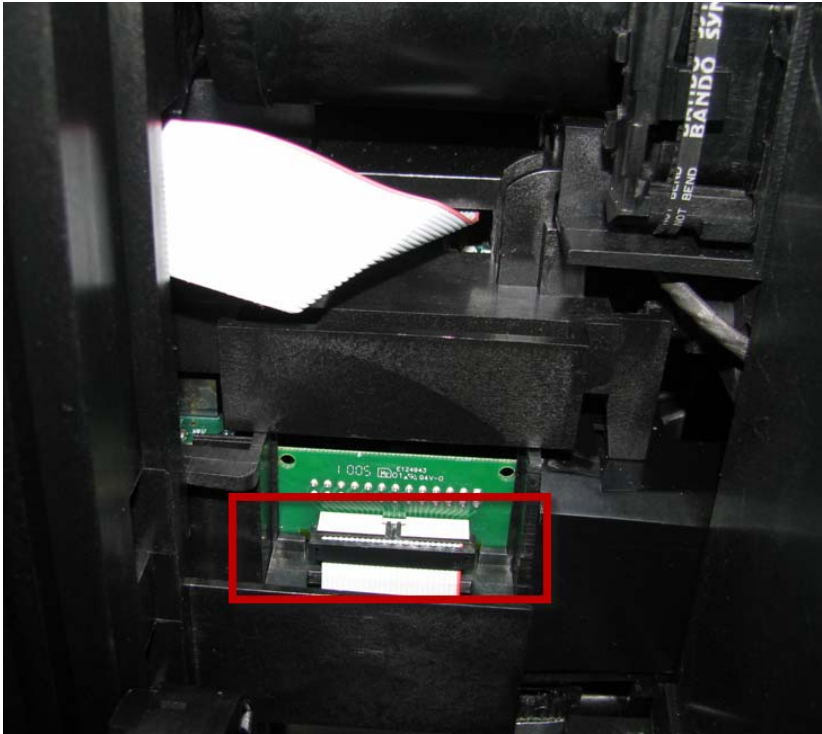
Remove the Flipper Access Door.

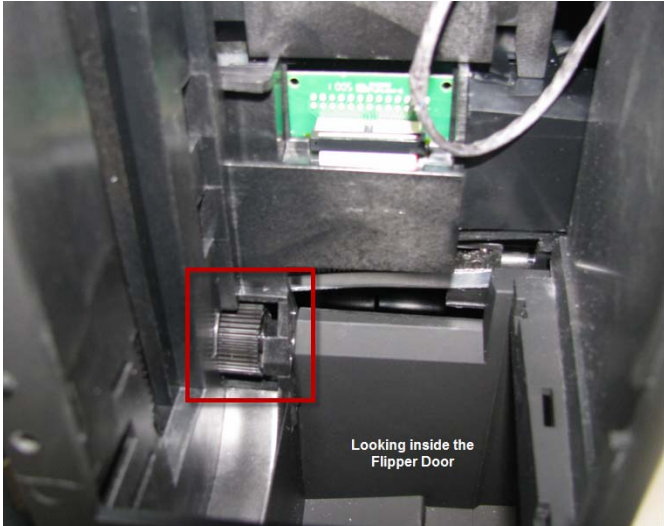
Flex the Flipper Door to release the pins from the frame.



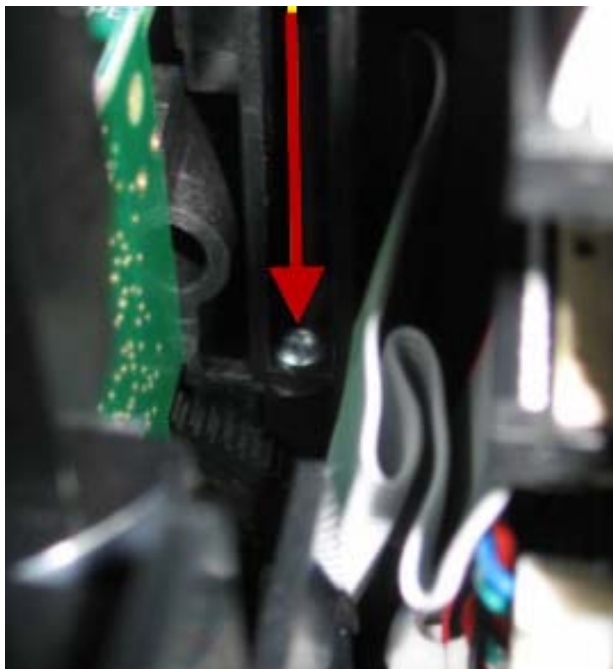
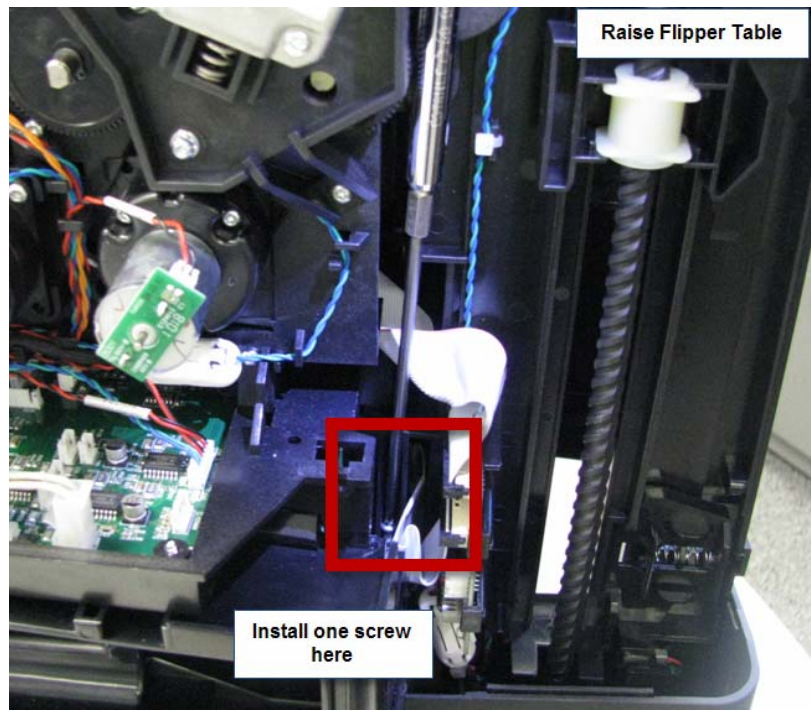
17	Remove the back cover. Remove the two (2) screws (F000178) that hold the back and front cover together. 
18	Lift up from the back. Unlatch the top hooks. The tabs fit into the slot then hook in place when lowered. 

19	This is what the module will look like after these parts are removed. The printer is now ready to upgrade. 
20	If the PCB has moved UP during shipping, push the PCB DOWN in place in order for the module to fit correctly. See Display 1 and 2 for location of PCB.  Display 1: Looking at the PCB inside the Flipper Door  Display 2: Laminator on its side showing PCB location

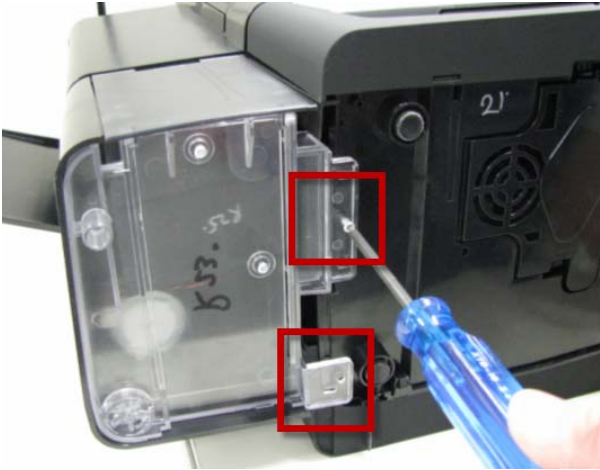
21	Line up the Lamination Module with the printer base. Start with the module lined up to the printer then slide in to allow the bottom latch tabs to connect. (The printer may be placed close to the edge of the table.) 
22	Verify the electrical connection is solidly connected to the PCB. Push on the black plastic cable end to secure the connection.  Picture shown looking inside the Flipper Access Door

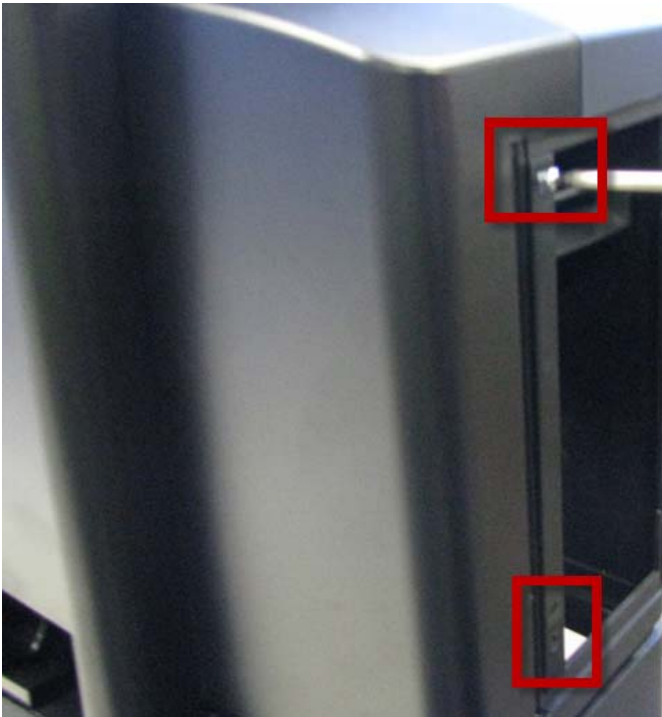
23	Check that the Laminator and the Printer are solidly connected by looking at the front seam. No large or inconsistent gaps should be present.  A photograph showing the front of a black printer/laminator. A red arrow points to the front seam where the laminator and printer are joined. The control panel with a small LCD screen and two buttons (power and pause) is visible.
24	Verify the gear inside the Flipper Module is engaged and not free spinning. If the gear moves the Laminator and Printer are not fully seated. See Display 1 and 2 for gear location Display 1  Display 2  Two photographs showing internal components. Display 1 shows the reject hopper with a red box highlighting a gear mechanism. Display 2 shows the Flipper Door with a red box highlighting a gear mechanism.

- 25 One (1) screw (F000178) holds the Lamination module to the Printer.
(**TIP:** Use a flashlight and magnetized screwdriver)



Close up of screw location

26	Turn the printer on its side and snap together the bottom tabs. Install the two (2) screws (F000178) as shown below. 
27	Replace the covers in the order given below.
28	Install the back cover. Hook the top tabs first then tilt down to click in the bottom. 

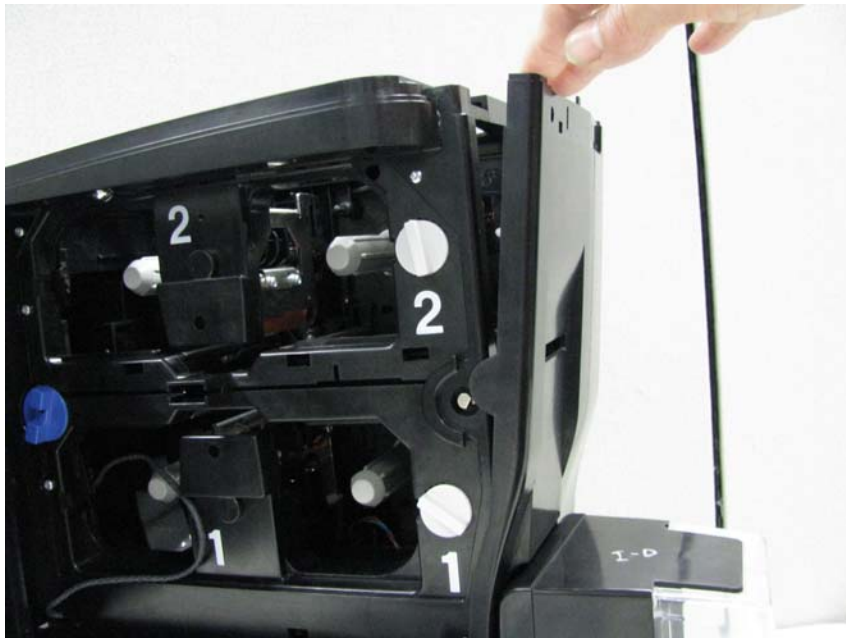
29	Install the two screws to hold the back cover to the front cover. 
30	Install the Flipper Door by flexing the middle to fit the pins into the frame. 

31

Reinstall the Input Lam Panel.

Insert the bottom of the Input Lam Panel in-between the input hopper and the printer.

Have the front door open during this step.

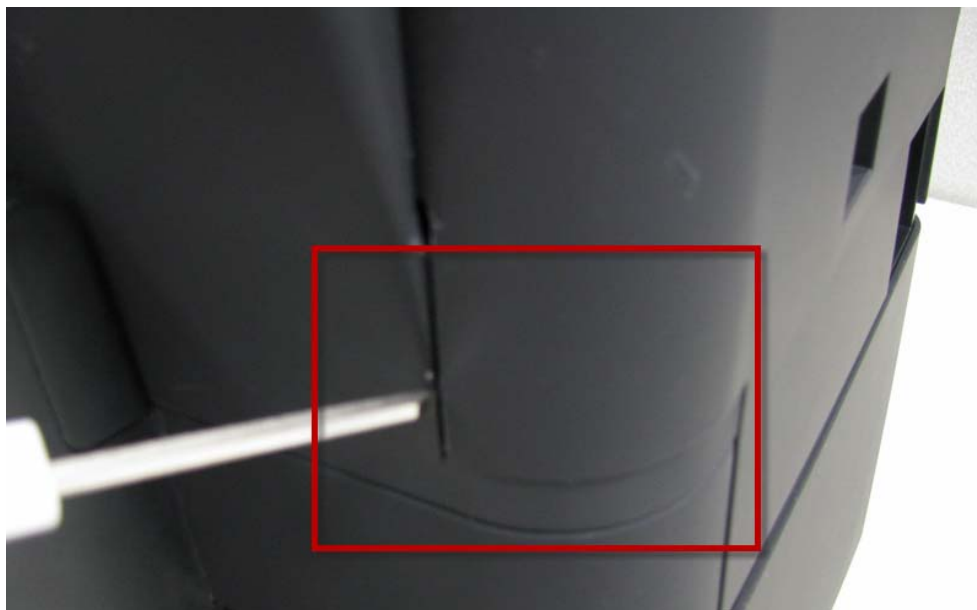


NOTE: The panel latch fits into the frame hole provided. This locks the pieces together.



32	Tilt the panel up toward the printer. 
33	This front side tab snaps into the printer frame. 

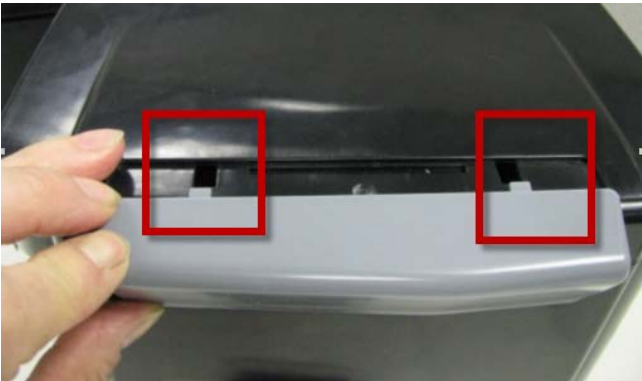
- 34 Use a small flathead screwdriver to open up a space in the **back cover** in order to snap this side tab into place.



- 35 Install the Top Cover.
Start at the back and snap into place at the front.

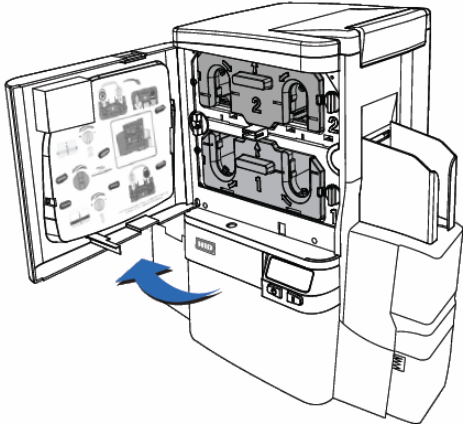
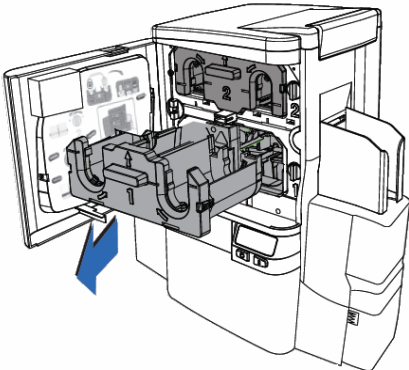


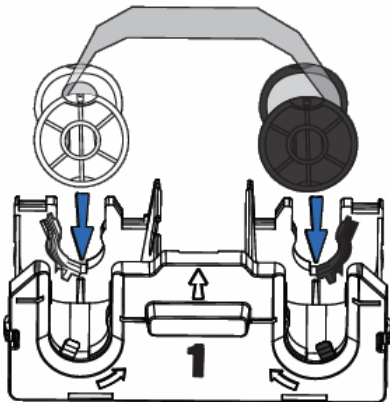
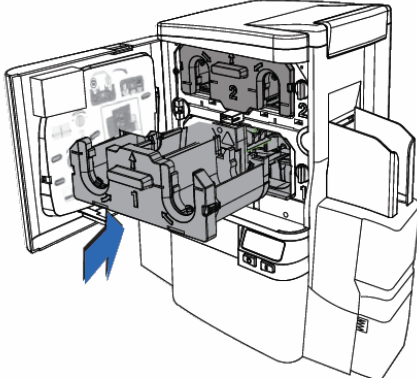
Make note of the tab connection. Push down on all sides for a solid fit.
Verify no wires are pinched .

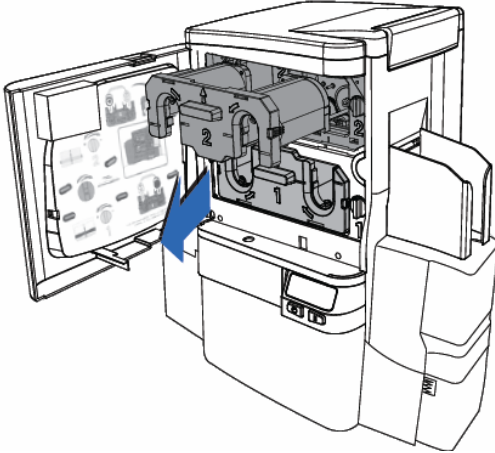
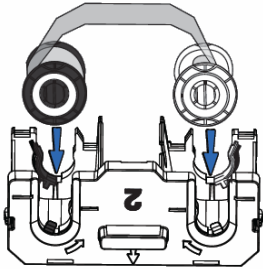
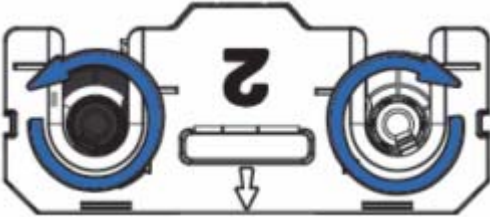
36	Insert the Input Cap starting from the bottom. 
37	Tilt the Input Cap upward until the top tabs snap into place. 
38	Install the Output Hopper Bin. Start at the top and line up the tabs. Push down to snap into place. 

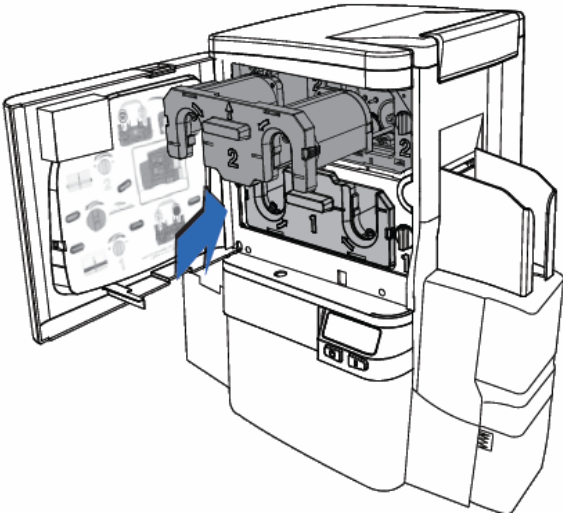
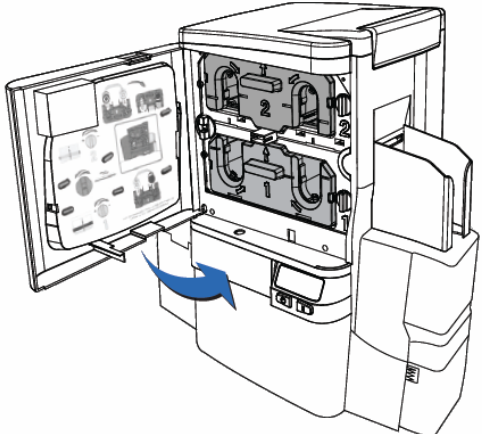
39	Lamination Module Installation procedure is complete. 
40	Final check for installation. ▪ Flipper Table must be level. If the table is not level move it by hand to level it out. Failure to do this will cause card jams. ▪ Verify the GEAR is engaged. Check this by hand and if it spins freely the module is not installed correctly. Reinstall the Module. ▪ Verify no wires are pinched under the Top Cover and the Dual Side Lamination wire harness.
41	NOTE: Upon power up when the printer is in the READY mode use the buttons as shown below to verify that the Lamination Module has been successfully installed. 

Installing the Laminates

Step	Procedure
1	Open the lamination door 
2	Remove #1 laminate cartridge 
3	Load lamination rolls into the cartridge until hearing a click.

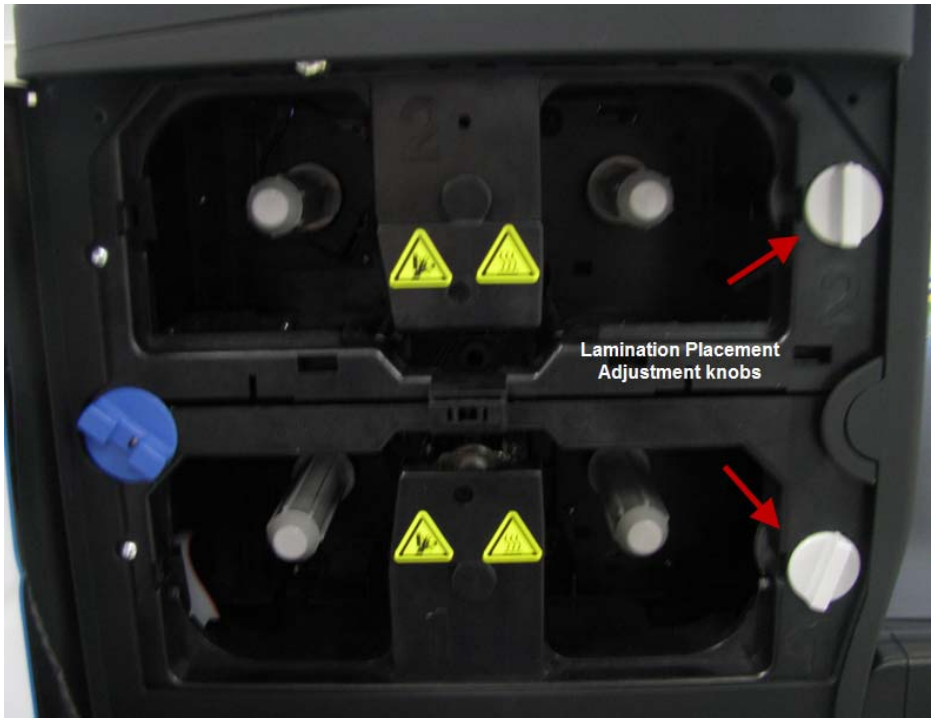
	
4	Tighten the lamination roll. 
5	Insert the laminate cartridge until hearing a click. 
6	Remove #2 laminate cartridge

	
7	Load lamination rolls into the cartridge until hearing click. 
8	Tighten the lamination roll. 
9	Insert the laminate cartridge until hearing a click.

	
10	Close the lamination door. 

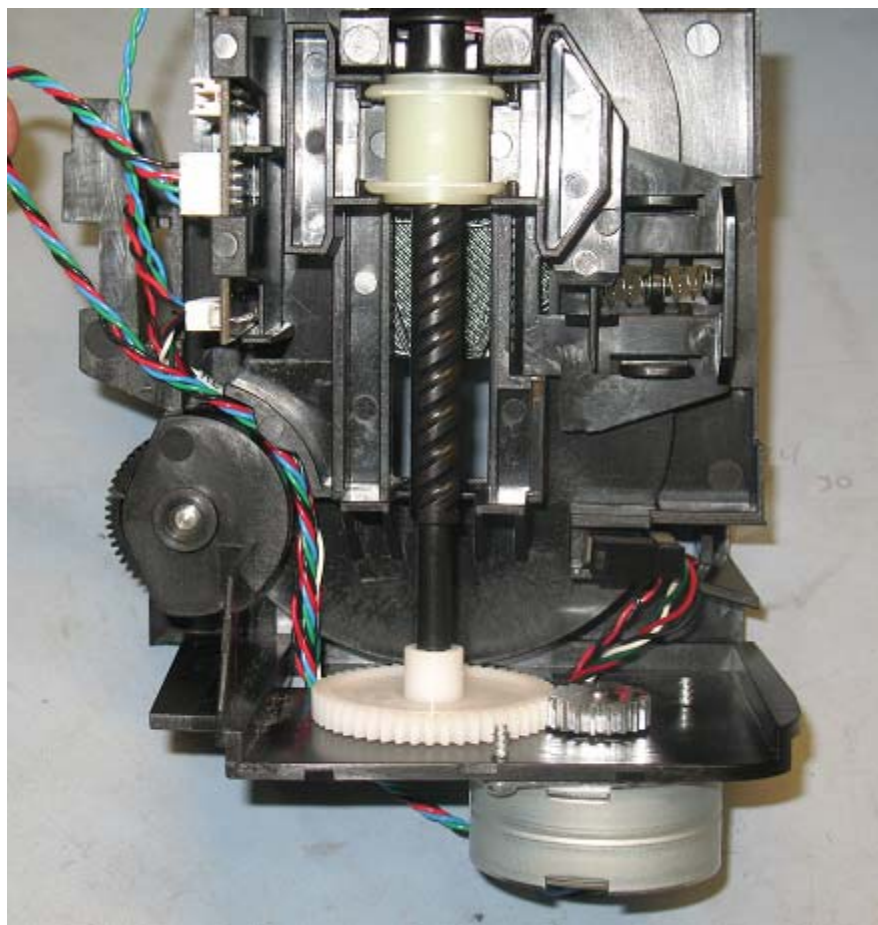
Adjusting the Lamination Placement on the Card

The Card Lamination Module provides an adjustable Lamination Placement knob that allows you to fine-tune where the lamination is being placed on the card.

Step	Procedure
1	- The Lamination Placement Adjustment Knob is the light gray knob to the right of the Lamination Cartridges. - The printer will have one or two film cartridges loaded (depending on whether this is a Single or Dual-Side Lamination Module). - Remove the cartridge for this adjustment 
2	Print a test card to see if the Lamination placement needs to be adjusted. Remove the cartridge for this adjustment Turn the knob to the right to move the patch toward the front edge of the Lamination Module. Turn the knob to the left to move the patch toward the back edge of the lamination module.

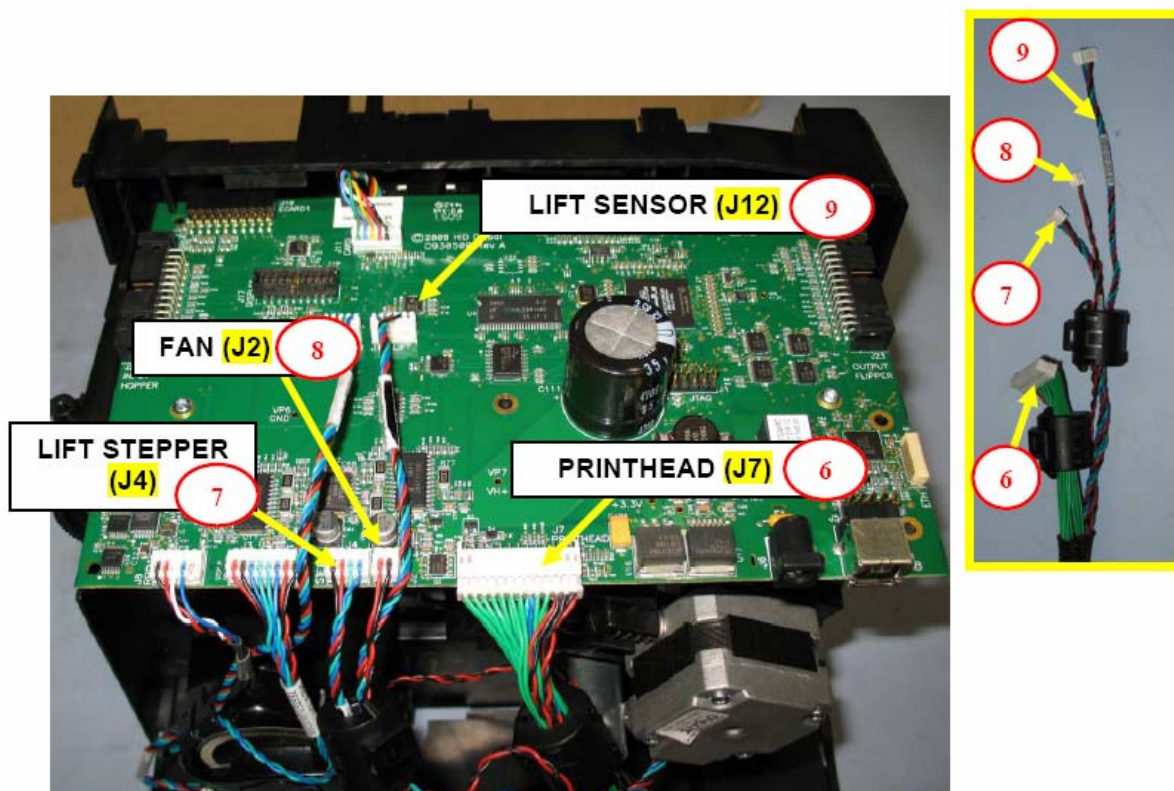
Appendix C

Wire Routing Display of Dual-Sided Printing Module

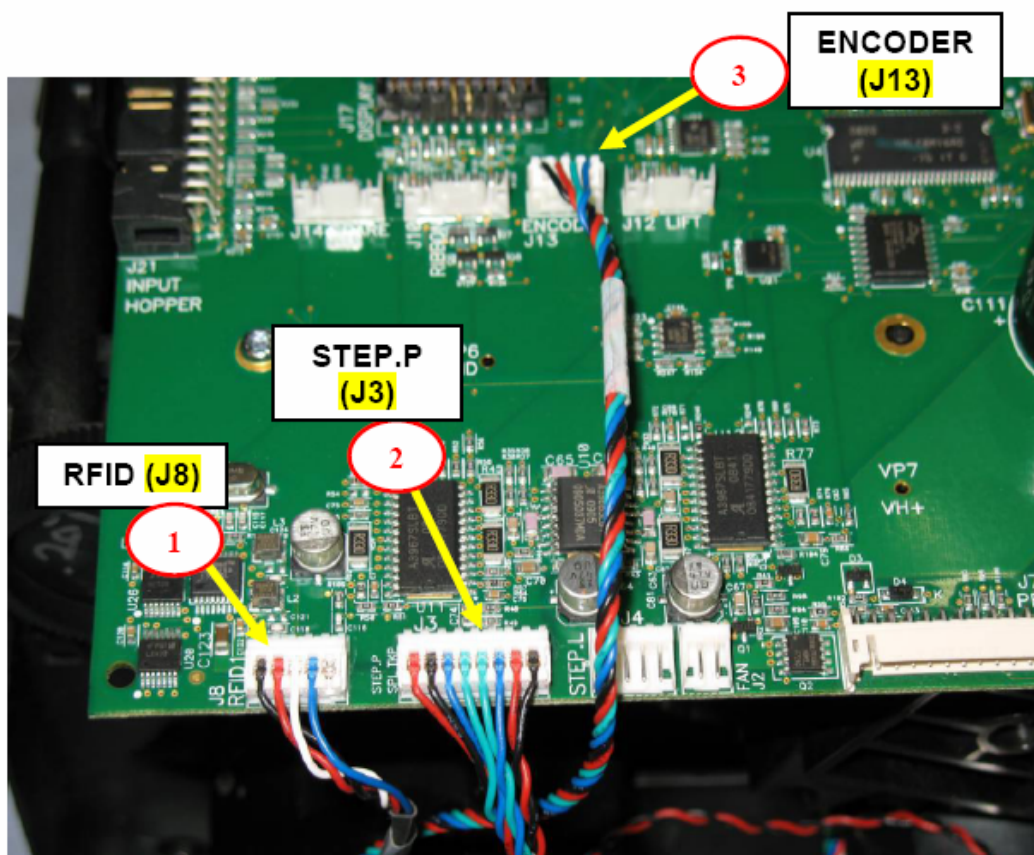


Appendix D

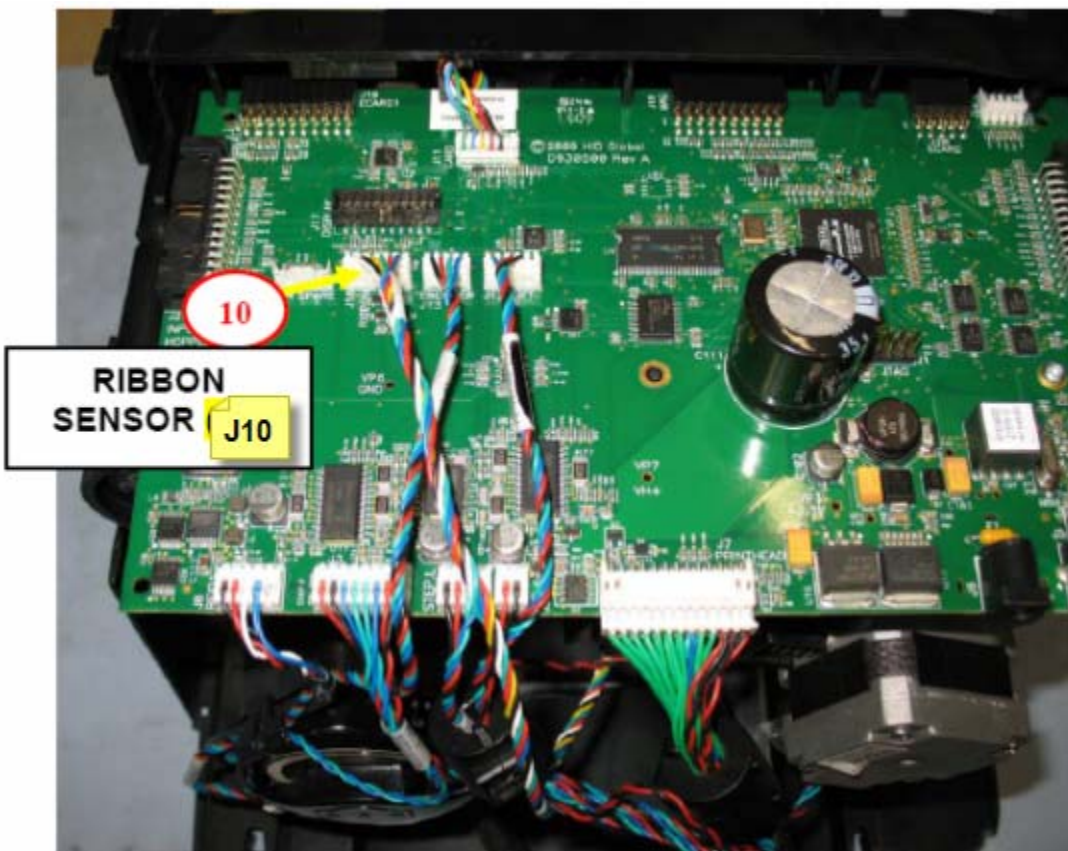
Printer Mainboard connections



J2-J4-J7-J12 Printhead Harness Cable (D930616) Printhead, Lift Stepper & Sensor, Fan



- J3 Motor Harness Cable (D930600) Stepper Motor, Ribbon Supply, Ribbon Take-up
- J8 RFID Cable (D930603)
- J13 Encoder Cable (D930605)



J10 (D930608) Ribbon Sensor Cable

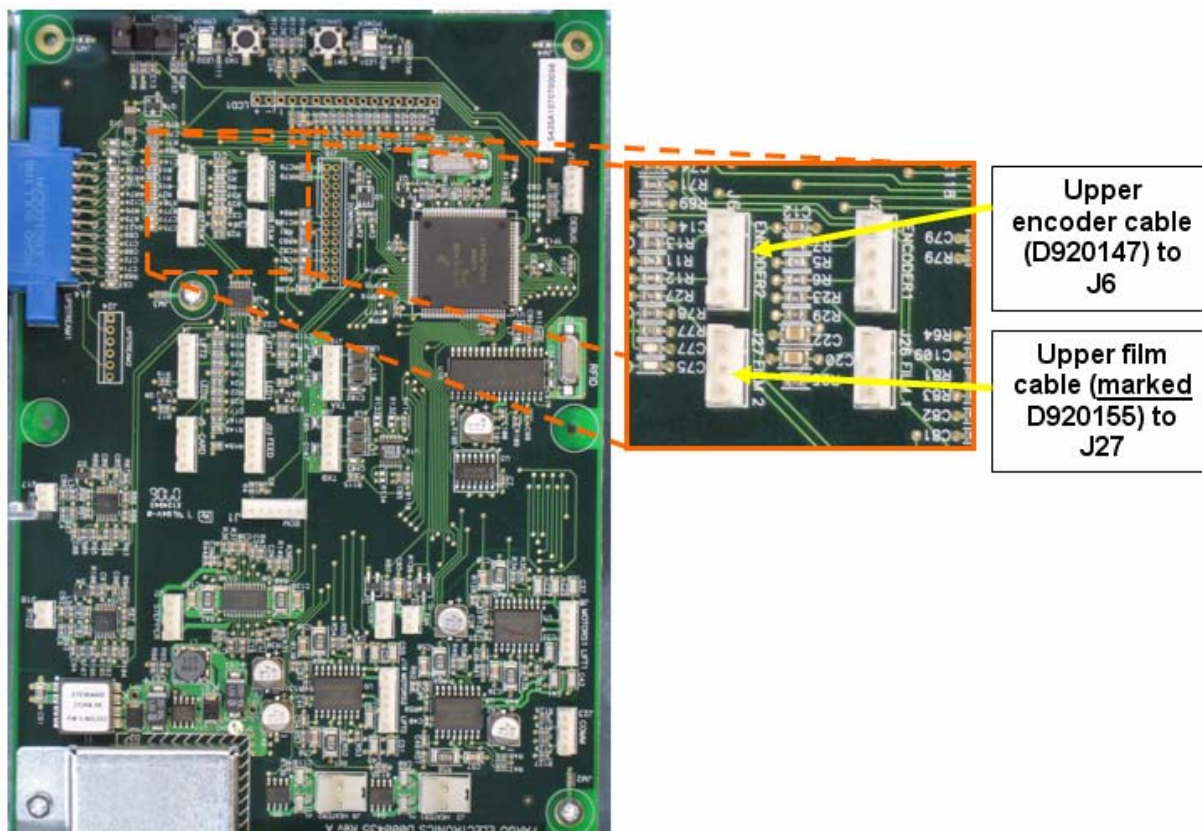


J11 (D930613) Card Path Cable

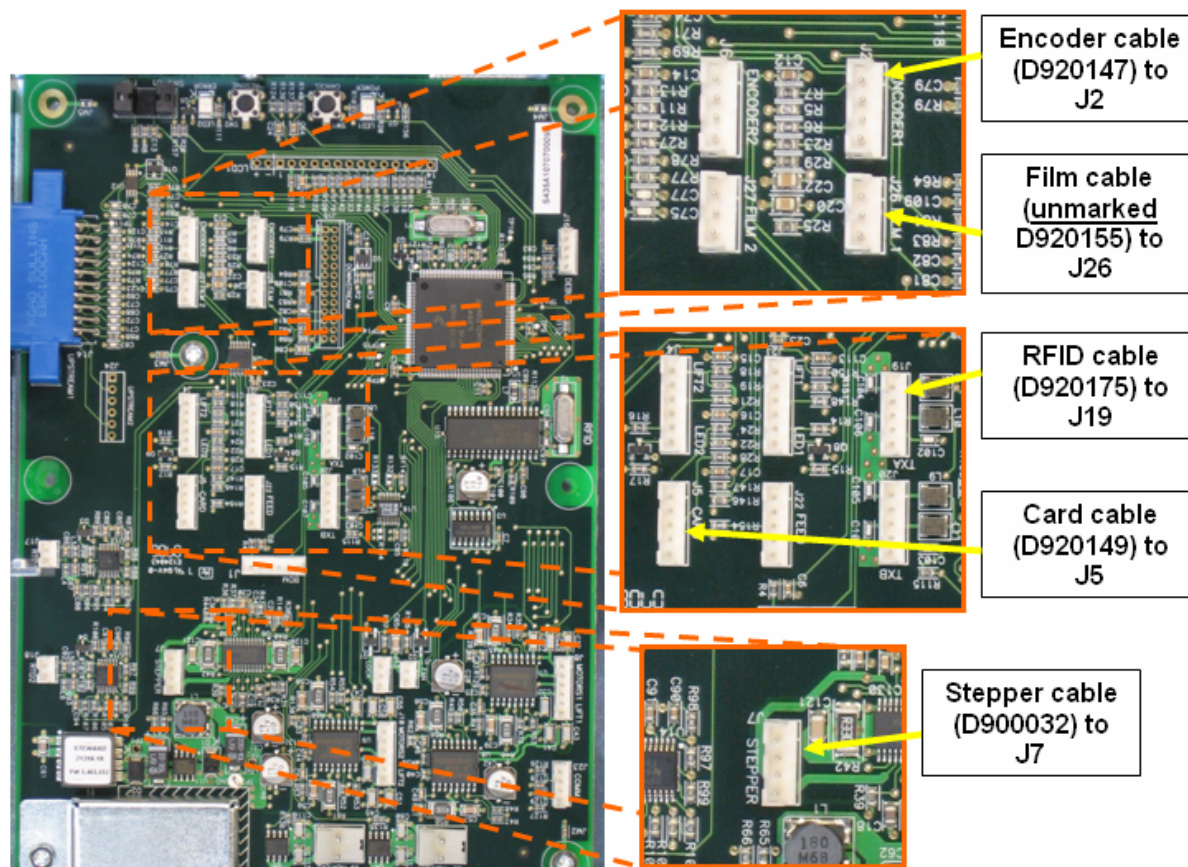
Appendix E

Lamination Module Mainboard connections

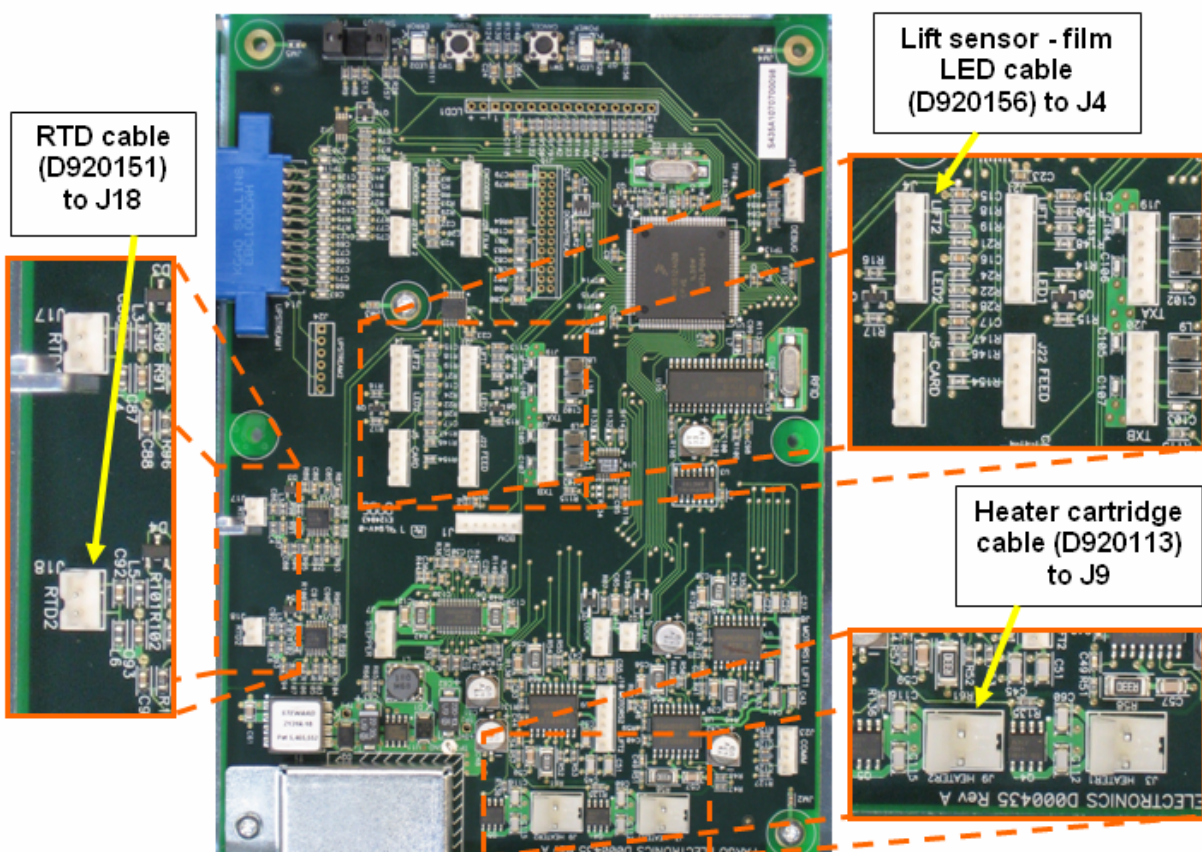
Upper Sensing Cables



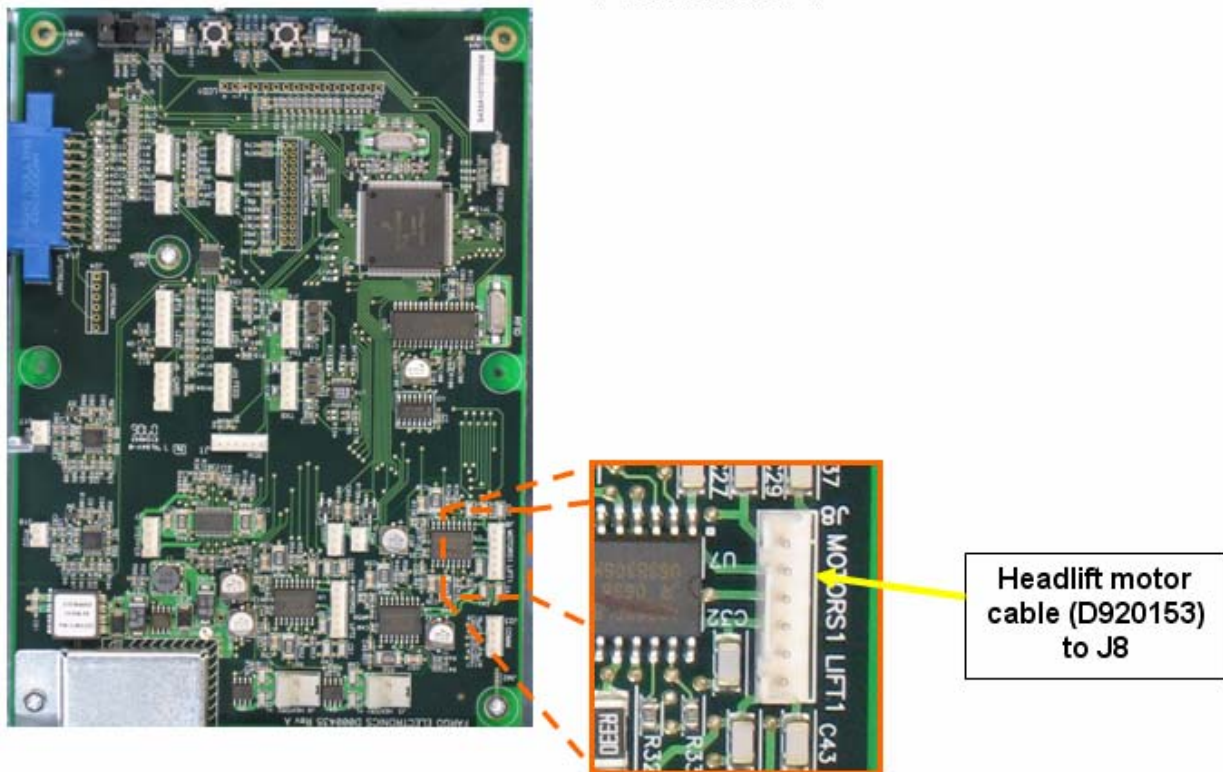
Feed & Lower Sensing Cables



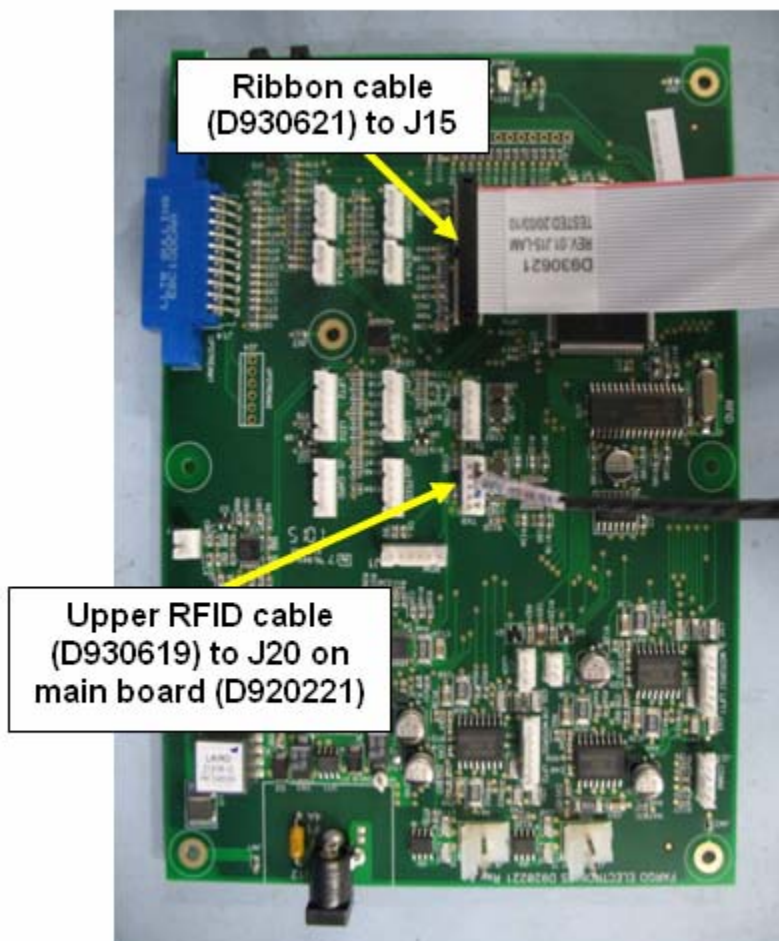
Upper Lam Head Cables



Lower Motor Cables



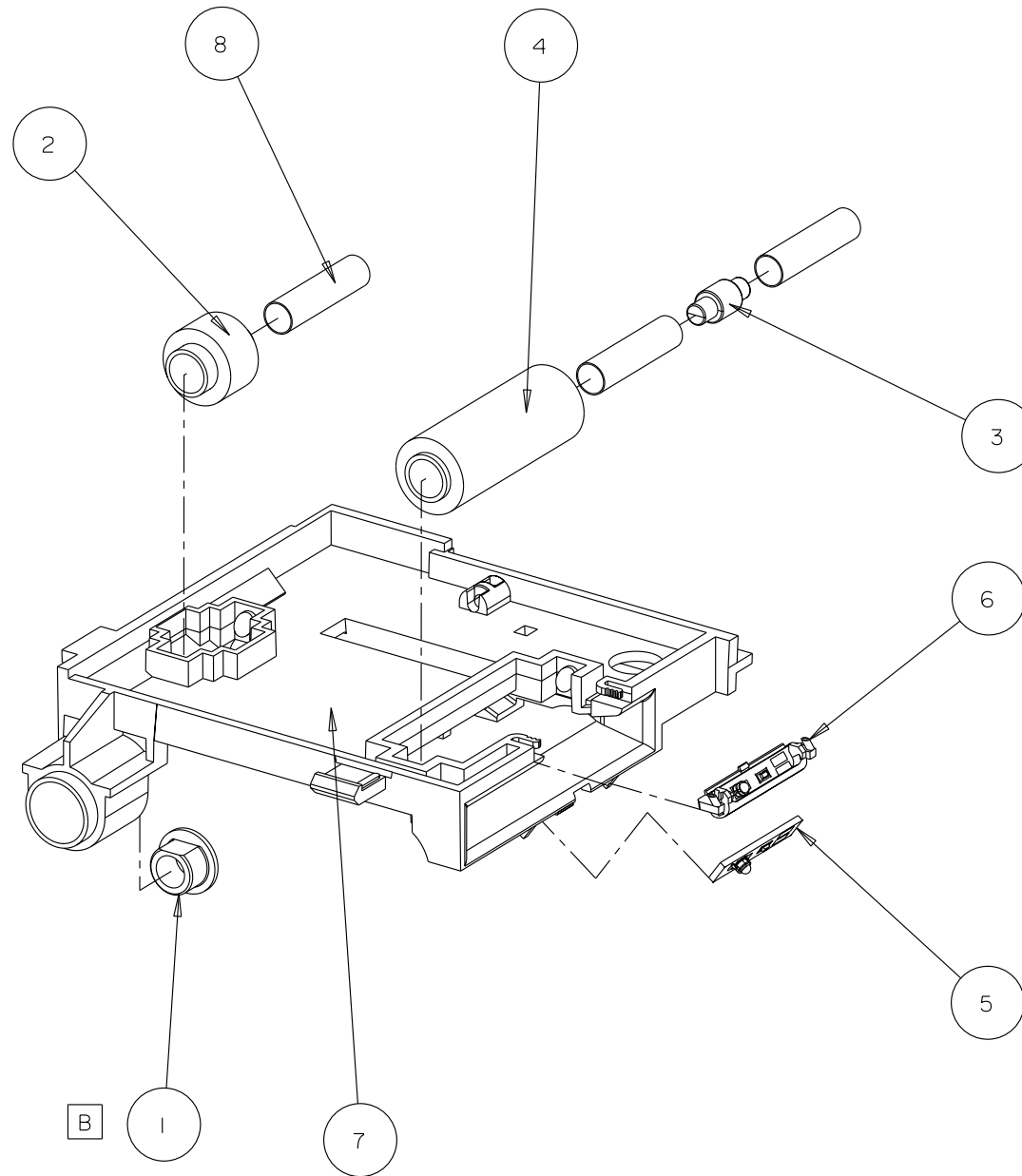
Upper RFID and Ribbon Cable



Appendix F

Engineering Drawings

NOT PRODUCTION VALID W/O STAMP ABOVE



1. MATERIAL AND MANUFACTURING PROCESS MUST COMPLY WITH FARGO ENVIRONMENTAL SPECIFICATION SOOO503.
2. PACKAGE PER FARGO SPECIFICATION SOOO506.
3. ALL ELECTRONIC COMPONENTS OR COMPONENT ASSEMBLIES MUST BE MARKED WITH THE MANUFACTURERS NAME OR TRADE MARK, AND THE MANUFACTURERS TYPE CODE OR PART NUMBER. THIS INCLUDES MOTORS, FANS, SOLENOIDS, CIRCUIT BOARDS, ETC.
4. SUPPLIER CERTIFICATION OF COMPLIANCE IS REQUIRED WITH EACH SHIPMENT.

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D9304II-02	D9304II-02	ASSEM

ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	1	760343	PART	BEARING - DRIVE ROLLER
2	1	D920013	ASSEMBLY	ROLLER- PINCH
3	1	D920017	PART	BUSHING- SPRING OUTPUT
4	1	D920018	ASSEMBLY	ROLLER- PINCH OUTPUT
5	2	D920155	ASSEMBLY	ASY-CBL-FILM MARK SENSOR
6	1	D920165	PART	BRACKET-PATCH_SENSOR
7	1	D920201	PART	CENTERPLATE-EXIT
8	3	F000338	PART	SPRING - COMP .250 X 1.000 X .040

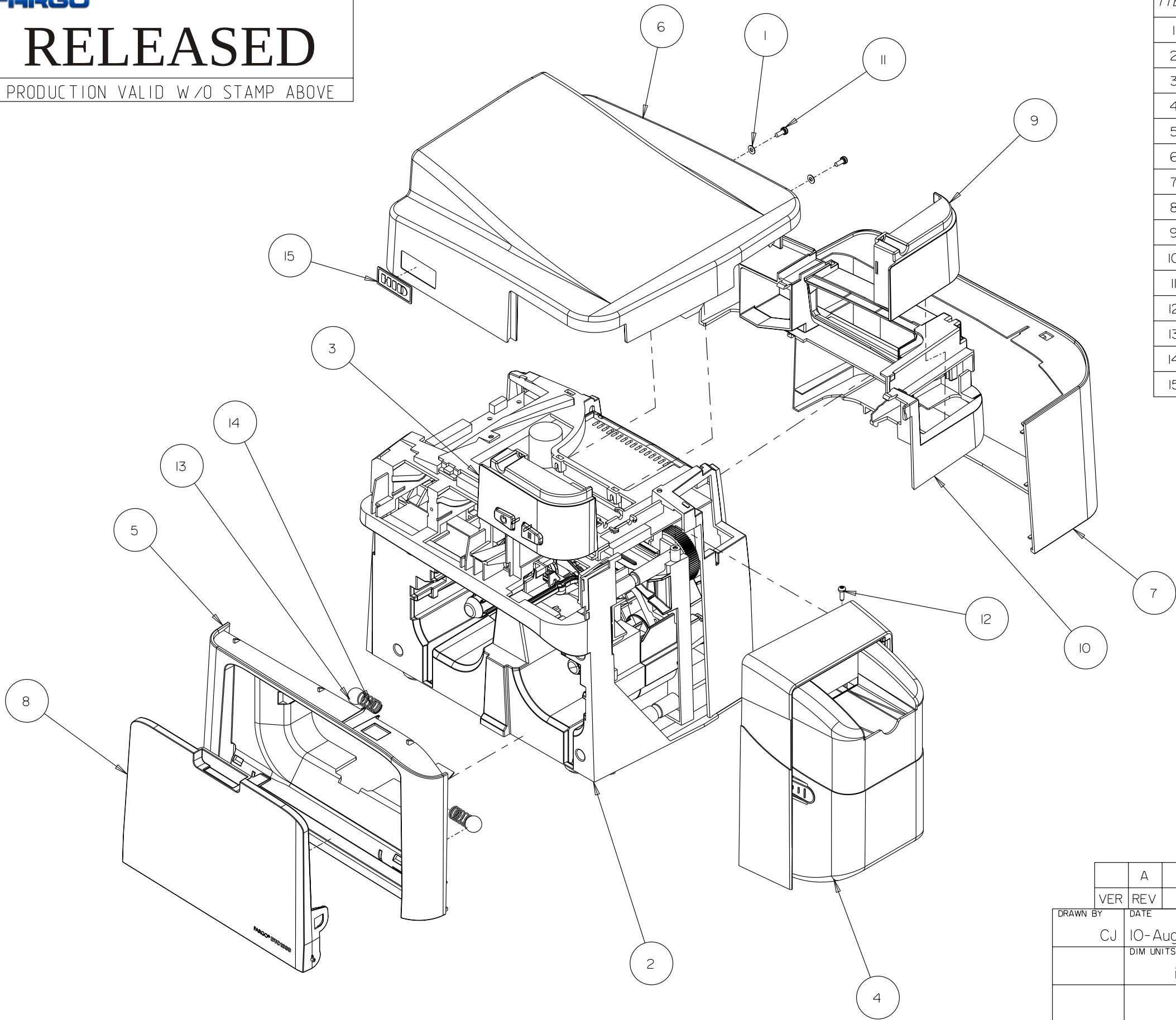
	B	REMOVED 760363, ADDED 760343, CHANGED DESCRIPTION-REMOVED (NEO) AND DS ADDED L2	CI8290	07-OCT-10	DBC/JLS
	A	PRODUCTION RELEASE	CI7577	3-FEB-10	JLS/JLS
	O2	ADDED DRAWING	CI7557	25-JAN-10	JLS/JLS
VER	REV	RECORD	ECO#	DATE	DRA/ENG

DRAWN BY JLS	DATE 18-Jan-10	 Part of HID Global 		CONFIDENTIAL AND PROPRIETARY INFORMATION This document contains confidential and proprietary information, which may not be duplicated, published, disseminated or disclosed to unintended third party recipients (or just: "third parties") or used for any purpose, without written permission from Fargo Electronics Inc.
	DIM UNITS inch			
SCALE 0.750	SIZE B	DESCRIPTION B ASY - CENTERPLATE EXIT L2		
ASSY DWG	PROJECT	ASSY PART NUMBER D930411-02	ITEM NUMBER D930411-02	

FARGO

RELEASED

NOT PRODUCTION VALID W/O STAMP ABOVE



ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	2	I40040	PART	WASHER 3MM FLAT
2	1	D930002	ASSEMBLY	ASY COMMON PRINT ENGINE
3	1	D930017	ASSEMBLY	COVER-BUTTON DISPLAY
4	1	D930022	ASSEMBLY	ASY-INPUT 100 CARD
5	1	D930180-02	PART	COVER-FRONT
6	1	D930181-02	PART	COVER-TOP
7	1	D930182-02	PART	COVER-BACK
8	1	D930183-01	PART	COVER-FRONT DOOR
9	1	D930189-02	PART	COVER-DISPLAY
10	1	D930280-01	PART	COVER-BACK-TOP
11	2	F000171	PART	SCREW-M3X8_TPH_ZP_SEM
12	1	F000178	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
13	2	F000503	PART	BALL-STEEL
14	2	F000512	PART	SPRING-COMP-.437 X .875 X .032
15	1	L001393	PART	BADGE - HID

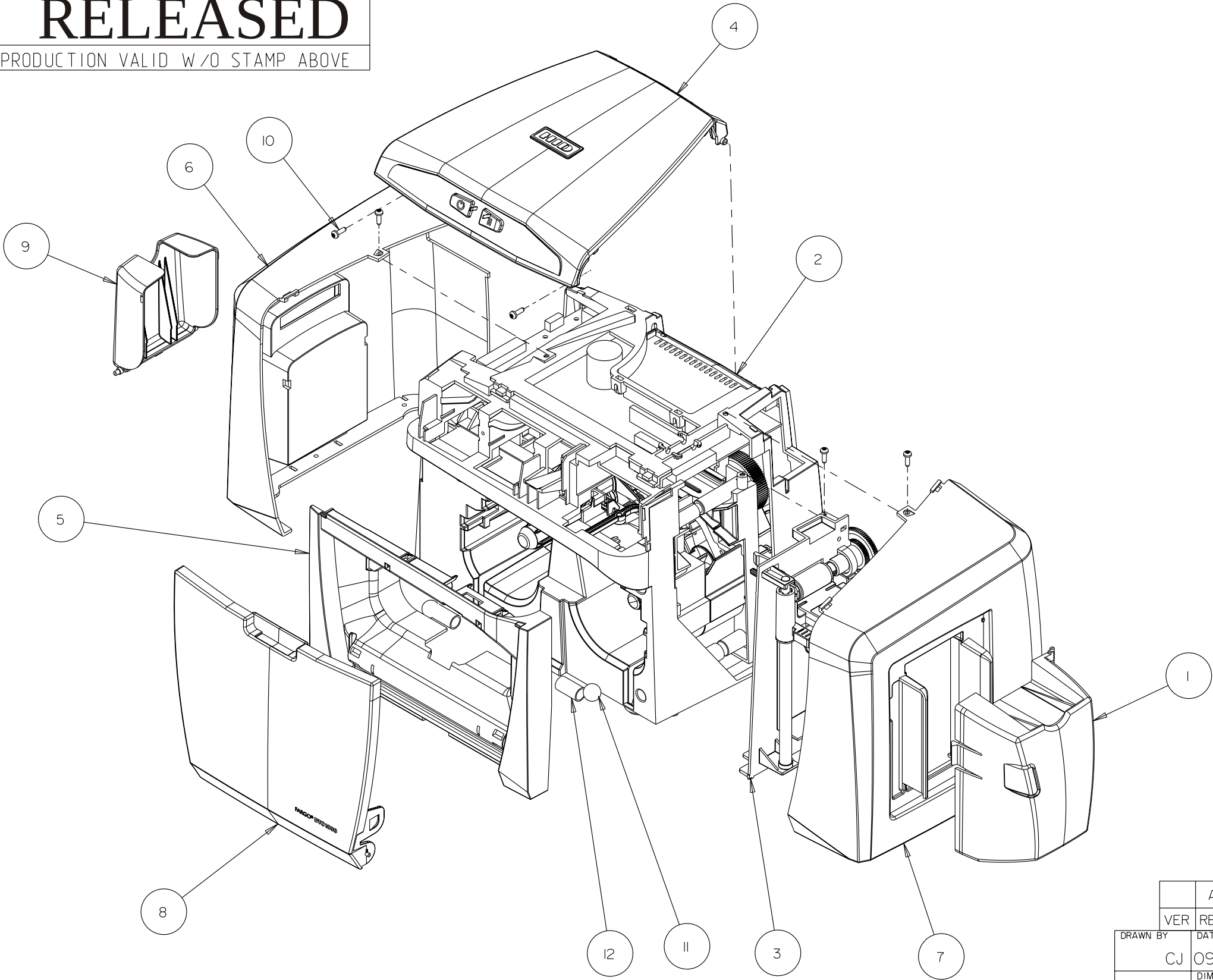
		A	INITIAL RELEASE		C18140	22-Aug-10	CJ/CJ
VER		REV	RECORD		ECO#	DATE	DRA/ENG
DRAWN BY		DATE	FARGO® Part of HID Global CONFIDENTIAL AND PROPRIETARY INFORMATION This document contains confidential and proprietary information, which may not be duplicated, published, disseminated or disclosed to unintended third party recipients (or just: "third parties") or used for any purpose, without written permission from Fargo Electronics Inc.				
CJ		10-Aug-10					
		DIM UNITS					
		inch					
SCALE		SIZE	DESCRIPTION				
0.310		B	ASY PRINTER DTC1000 FD				
ASSY DWG			PROJECT		ASSY PART NUMBER		ITEM NUMBER
					D930001-01		D930001-01

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D930001-01	D930003	ASSEM

FARGO

RELEASED

NOT PRODUCTION VALID W/O STAMP ABOVE



ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	1	D900067-01	PART	DOOR - INPUT
2	1	D930002	ASSEMBLY	ASY COMMON PRINT ENGINE
3	1	D930030	ASSEMBLY	ASY-INPUT-MECH-100 CARD
4	1	D930034-01	ASSEMBLY	ASY-COVER TOP
5	1	D930262	PART	COVER-FRONT
6	1	D930263-01	PART	COVER_LEFT
7	1	D930264-01	PART	COVER_RIGHT
8	1	D930265-01	PART	COVER-FRONT DOOR
9	1	D930269-01	PART	OUTPUT BIN
10	5	F000178	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
11	2	F000503	PART	BALL-STEEL
12	2	F000504	PART	SPRING-COMP .420 X .875 X .035

	A	INITIAL RELEASE	C18140	22-Aug-10	CJ/CJ
VER	REV	RECORD	ECO#	DATE	DRA/ENG

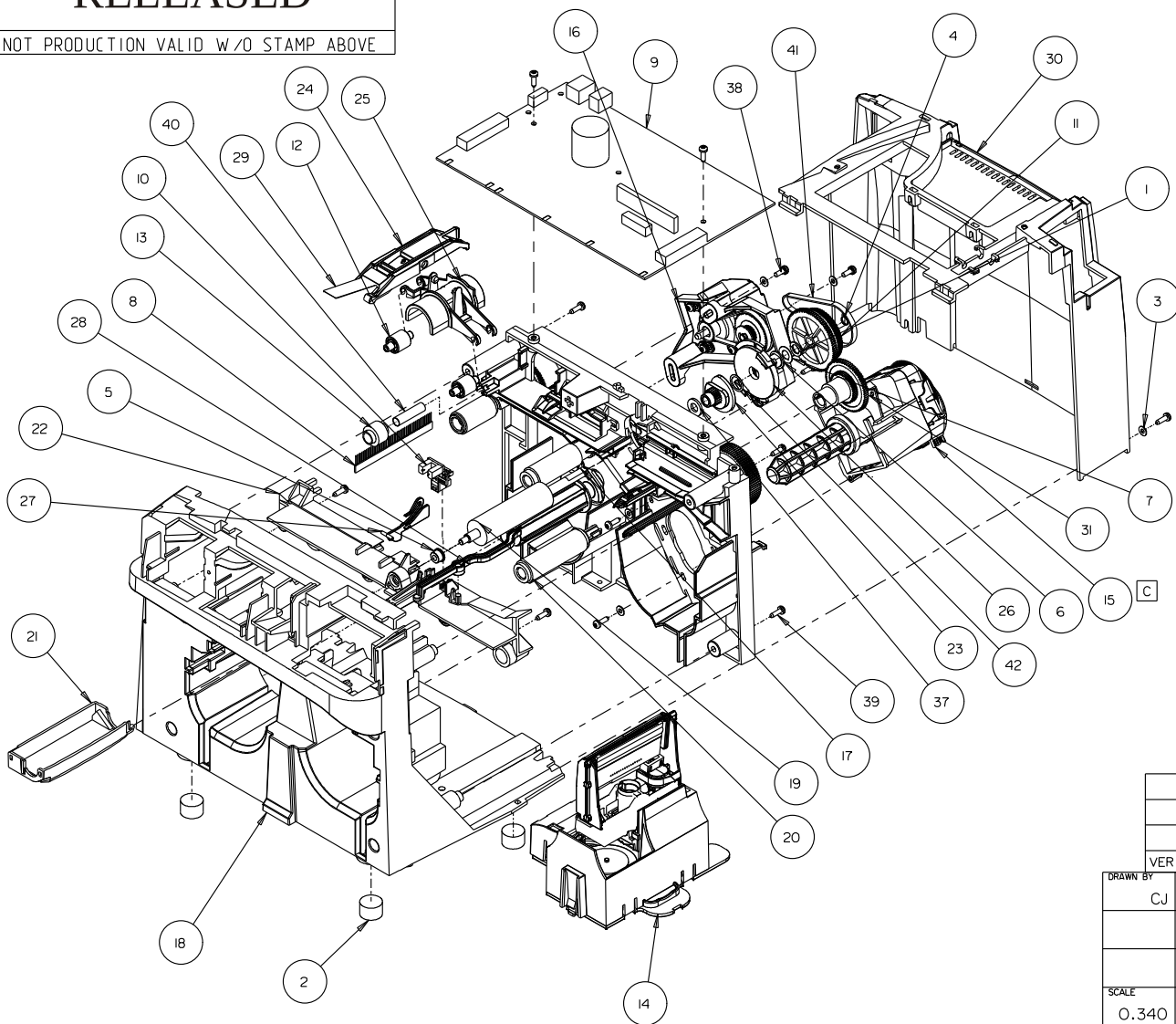
DRAWN BY	DATE	FARGO® Part of HID Global CONFIDENTIAL AND PROPRIETARY INFORMATION This document contains confidential and proprietary information, which may not be duplicated, published, disseminated or disclosed to unintended third party recipients (or just: "third parties") or used for any purpose, without written permission from Fargo Electronics Inc.			
	DIM UNITS				
	inch				
SCALE	SIZE	DESCRIPTION			
0.310	B	ASY-PRINTER DTC1000			
ASSY DWG		PROJECT	ASSY PART NUMBER	ITEM NUMBER	
			D930001	D930001	

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D930001	D930001	ASSEM

FARGO®

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ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	1	130951	PART	WASHER-SPRING.2691D.4230D.006THK
2	4	140024	PART	FOOT-RUBBER BUMPER .62 DIA X .4
3	7	140040	PART	WASHER 3MM FLAT
4	1	140048	PART	RETAINING RING-EXT C .25 IN SHFT
5	1	760219	PART	BEARING-RIBBON-ROLLER
6	1	760343	PART	BEARING - DRIVE ROLLER
7	1	760386	PART	SPACER-CLUTCH
8	1	810253	PART	BRUSH-STATIC DISSIPATIVE
9	1	A930500	PART	ASY-PCB MAIN
10	1	A930513	ASSEMBLY	ASY-CARD COVER SENSOR
11	1	D900429	PART	MXL PULLEY- GEAR, COMBO
12	2	D910295	PART	ROLLER-CARD IDLER
13	1	D920013	ASSEMBLY	ROLLER- PINCH
14	1	D930012	ASSEMBLY	ASY HEADLIFT
15	1	D930015-OI	ASSEMBLY	ASY-SUPPLY-RFID SPINDLE
16	1	D930028	ASSEMBLY	ASY STEPPER DRIVE
17	1	D930068	ASSEMBLY	ASY-REAR SIDEPLATE
18	1	D930100	PART	SIDEPLATE-FRONT
19	1	D930120	PART	ROLLER PLATEN
20	1	D930121	ASSEMBLY	ROLLER, CLEANING
21	1	D930129	PART	TENSIONER RIBBON
22	1	D930130	PART	CARDPATH-FRONT
23	1	D930135	PART	CAM-PLATEN
24	1	D930136	PART	BRACKET-LIFT PINCH
25	1	D930137	PART	BRACKET-ROLLER PINCH
26	1	D930178	PART	BUSHING-TWISTLOCK
27	1	D930258	PART	FLAG-COVER SENSOR
28	1	D930260	PART	LEVER-CR-79/CR-80
29	1	D930266	PART	SPRING-PINCH ROLLERS
30	1	D930270-OI	PART	COVER-BACK
31	1	D930361	PART	GEAR-DRIVE
32	1	D930600	ASSEMBLY	ASY-CBL MOTORS
33	1	D930603	ASSEMBLY	ASY-CBL-RFID
34	1	D930605	ASSEMBLY	ASY-CBL-ENC-SNR
35	1	D930613	ASSEMBLY	ASY-CBL CARD/COVER SENSOR
36	1	D930616	ASSEMBLY	ASY-CBL PRINT HEAD HARNESS
37	1	F000156	PART	SPACER-NYLON .257 X .500 X .062
38	2	F000171	PART	SCREW-M3X8_TPH_ZP_SEM
39	14	F000178	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
40	1	F000338	PART	SPRING - COMP .250 X 1.000 X .040
41	1	F000424	PART	BELT, 81 GRV, .080P, .157" W
42	1	F000518	PART	WASHER .377 ID .498 OD .005 THK

	C	ADDED D930015-OI AND REMOVED D930340	C18508	24-Jan-11	CJ/TL
	B	ADDED D930340, D930361 WAS D930124	C18269	12-Oct-10	CJ/TL
	A	INITIAL RELEASE	C18109	10-Aug-10	CJ/CJ
VER	REV	RECORD	ECO#	DATE	DRA/ENG

DRAWN BY
CJDATE
10-Aug-10DIM UNITS
inchSCALE
0.340SIZE
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DESCRIPTION

ASY COMMON PRINT ENGINE

ASSY DWG

PROJECT

ASSY PART NUMBER

ITEM NUMBER

D930002

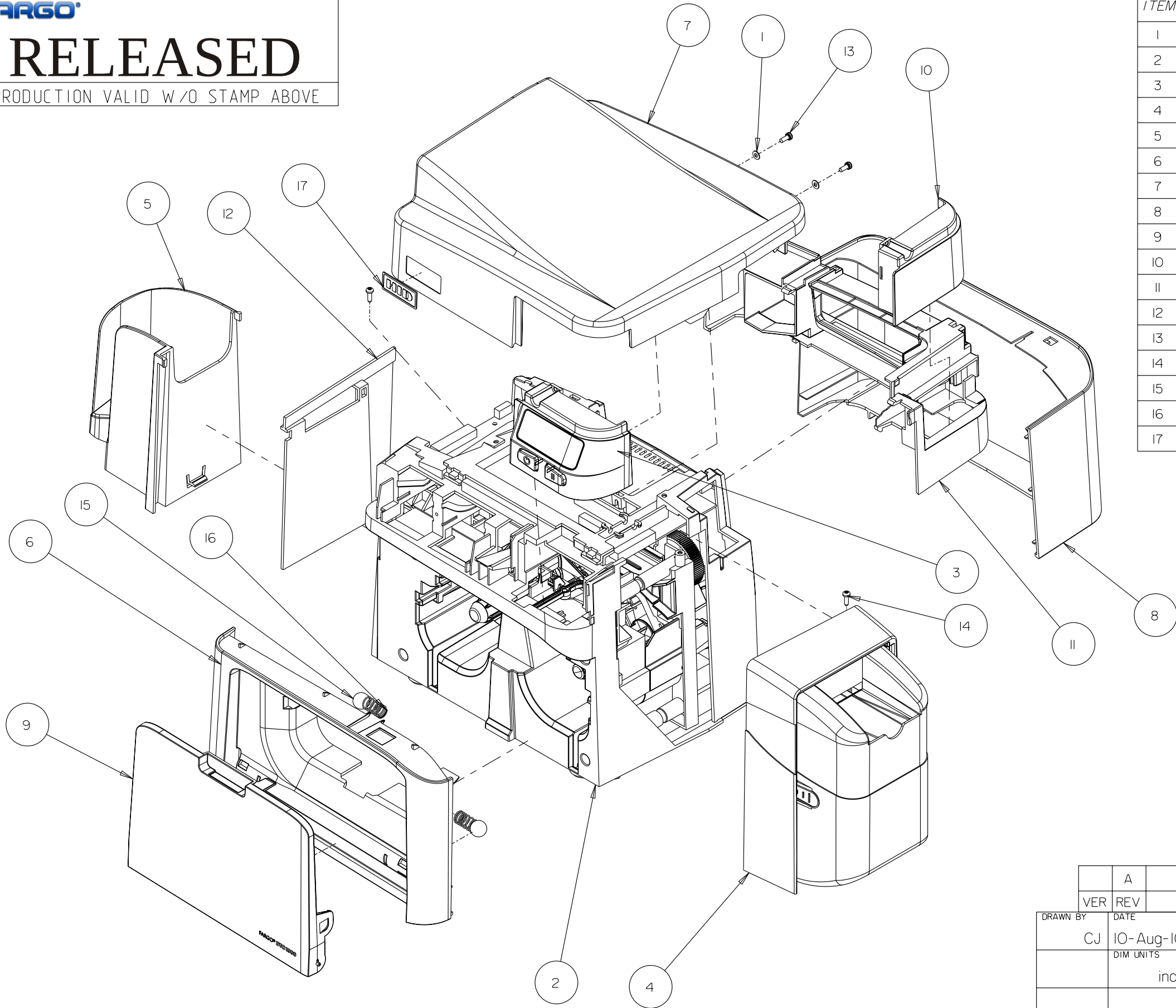
D930002

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D930002	D930002	ASSEM

FARGO

RELEASED

NOT PRODUCTION VALID W/O STAMP ABOVE



ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	2	I40040	PART	WASHER 3MM FLAT
2	1	D930002	ASSEMBLY	ASY COMMON PRINT ENGINE
3	1	D930018	ASSEMBLY	ASY-COVER-LCD/BUTTON DISPLAY
4	1	D930022	ASSEMBLY	ASY-INPUT 100 CARD
5	1	D930033	ASSEMBLY	ASY OUTPUT BIN
6	1	D930180-01	PART	COVER-FRONT
7	1	D930181-01	PART	COVER-TOP
8	1	D930182-01	PART	COVER-BACK
9	1	D930183-02	PART	COVER-FRONT DOOR
10	1	D930189-01	PART	COVER-DISPLAY
11	1	D930280-01	PART	COVER-BACK-TOP
12	1	D930281-01	PART	COVER-OUTPUT
13	2	F000171	PART	SCREW-M3X8_TPH_ZP_SEM
14	2	F000178	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
15	2	F000503	PART	BALL-STEEL
16	2	F000512	PART	SPRING-COMP-.437 X .875 X .032
17	1	L001393	PART	BADGE - HID

	A	INITIAL RELEASE	C18140	22-Aug-10	CJ/CJ
VER	REV	RECORD	ECO#	DATE	DRA/ENG

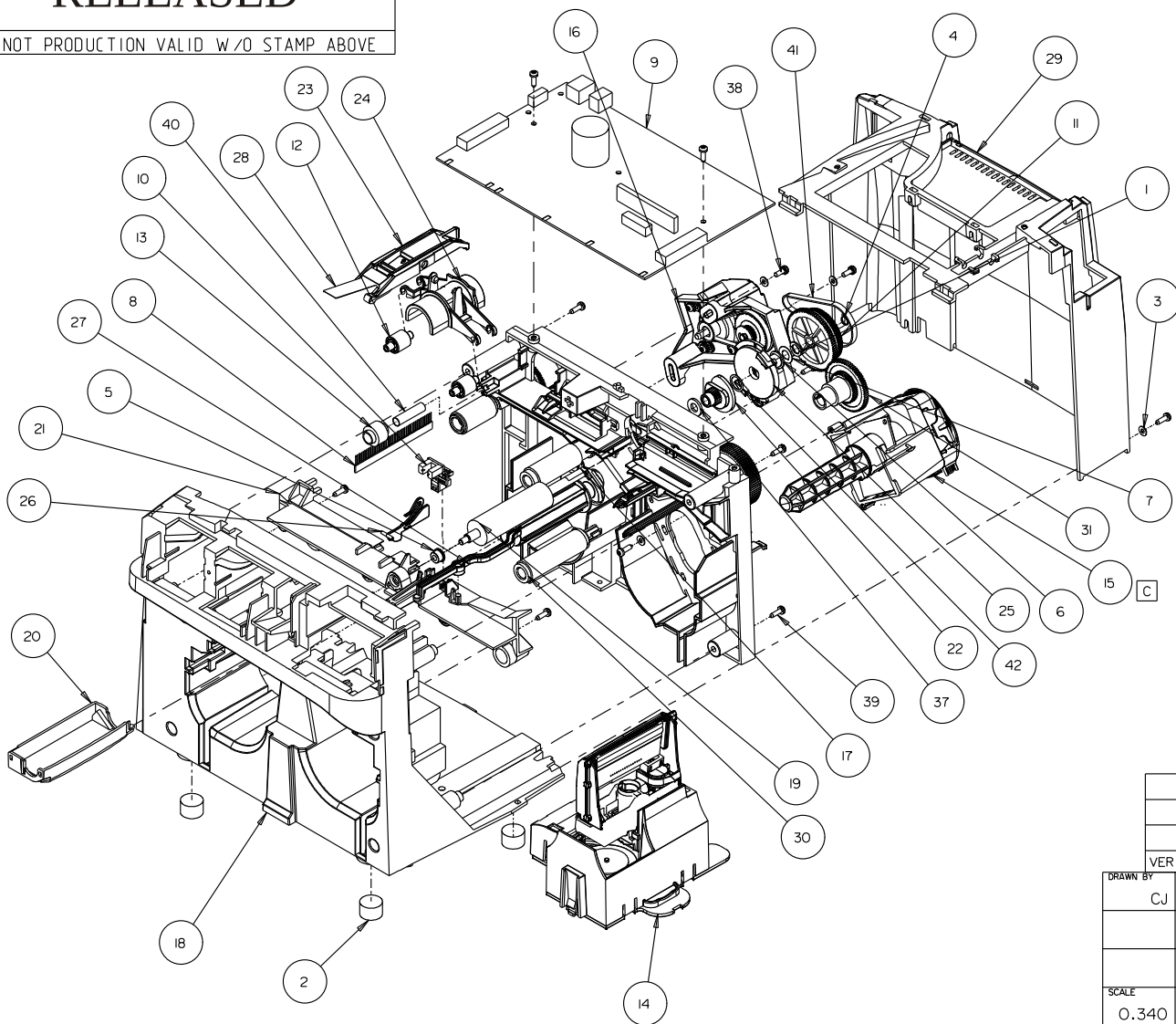
DRAWN BY	DATE	FARGO® Part of HID Global CONFIDENTIAL AND PROPRIETARY INFORMATION This document contains confidential and proprietary information, which may not be duplicated, published, disseminated or disclosed to unintended third party recipients (or just: "third parties") or used for any purpose, without written permission from Fargo Electronics Inc.			
CJ	10-Aug-10				
	DIM UNITS	DESCRIPTION			
	inch				
SCALE	SIZE	ASY PRINTER DTC4000			
0.310	B				
ASSY DWG		PROJECT	ASSY PART NUMBER	ITEM NUMBER	
			D930000	D930000	

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D930000-01	D930003	ASSEM

FARGO®

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ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	1	I30951	PART	WASHER-SPRING.269ID.4230D.006THK
2	4	I40024	PART	FOOT-RUBBER BUMPER .62 DIA X .4
3	6	I40040	PART	WASHER 3MM FLAT
4	1	I40048	PART	RETAINING RING-EXT C .25 IN SHFT
5	1	760219	PART	BEARING-RIBBON-ROLLER
6	1	760343	PART	BEARING - DRIVE ROLLER
7	1	760386	PART	SPACER-CLUTCH
8	1	810253	PART	BRUSH-STATIC DISSIPATIVE
9	1	A930500	PART	ASY-PCB MAIN
10	1	A930513	ASSEMBLY	ASY-CARD COVER SENSOR
11	1	D900429	PART	MXL PULLEY- GEAR, COMBO
12	2	D910295	PART	ROLLER-CARD IDLER
13	1	D920013	ASSEMBLY	ROLLER- PINCH
14	1	D930012	ASSEMBLY	ASY HEADLIFT
15	1	D930015	ASSEMBLY	ASY-SUPPLY-RFID SPINDLE
16	1	D930028	ASSEMBLY	ASY STEPPER DRIVE
17	1	D930068	ASSEMBLY	ASY-REAR SIDEPLATE
18	1	D930100	PART	SIDEPLATE-FRONT
19	1	D930120	PART	ROLLER PLATEN
20	1	D930129	PART	TENSIONER RIBBON
21	1	D930130	PART	CARDPATH-FRONT
22	1	D930135	PART	CAM-PLATEN
23	1	D930136	PART	BRACKET-LIFT PINCH
24	1	D930137	PART	BRACKET-ROLLER PINCH
25	1	D930178	PART	BUSHING-TWISTLOCK
26	1	D930258	PART	FLAG-COVER SENSOR
27	1	D930260	PART	LEVER-CR-79/CR-80
28	1	D930266	PART	SPRING-PINCH ROLLERS
29	1	D930270-01	PART	COVER-BACK
30	1	D930336	ASSEMBLY	ROLLER, CLEANING
31	1	D930361	PART	GEAR-DRIVE
32	1	D930600	ASSEMBLY	ASY-CBL MOTORS
33	1	D930603	ASSEMBLY	ASY-CBL-RFID
34	1	D930605	ASSEMBLY	ASY-CBL-ENC-SNR
35	1	D930613	ASSEMBLY	ASY-CBL CARD/COVER SENSOR
36	1	D930616	ASSEMBLY	ASY-CBL PRINT HEAD HARNESS
37	1	F000156	PART	SPACER-NYLON .257 X .500 X .062
38	2	F000171	PART	SCREW-M3X8_TPH_ZP_SEM
39	13	F000178	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
40	1	F000338	PART	SPRING - COMP .250 X 1.000 X .040
41	1	F000424	PART	BELT, 81 GRV, .080P, .157" W
42	1	F000518	PART	WASHER .377 ID .498 OD .005 THK

	C	ADDED D930015, REMOVED IX I40040 AND IX F000178	C18508	24-Jan-11	CJ/TL
	B	D930361 WAS D930124	C18269	12-Oct-10	CJ/TL
	A	INITIAL RELEASE	C18109	10-Aug-10	CJ/CJ
VER	REV	RECORD	ECO#	DATE	DRA/ENG

DRAWN BY
CJ
DATE
10-Aug-10
DIM UNITS
inch
SCALE
0.340
SIZE
B

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DESCRIPTION

ASY COMMON PRINT ENGINE 4500

PROJECT

ASSY PART NUMBER

ITEM NUMBER

ASSY DWG

D930002-01

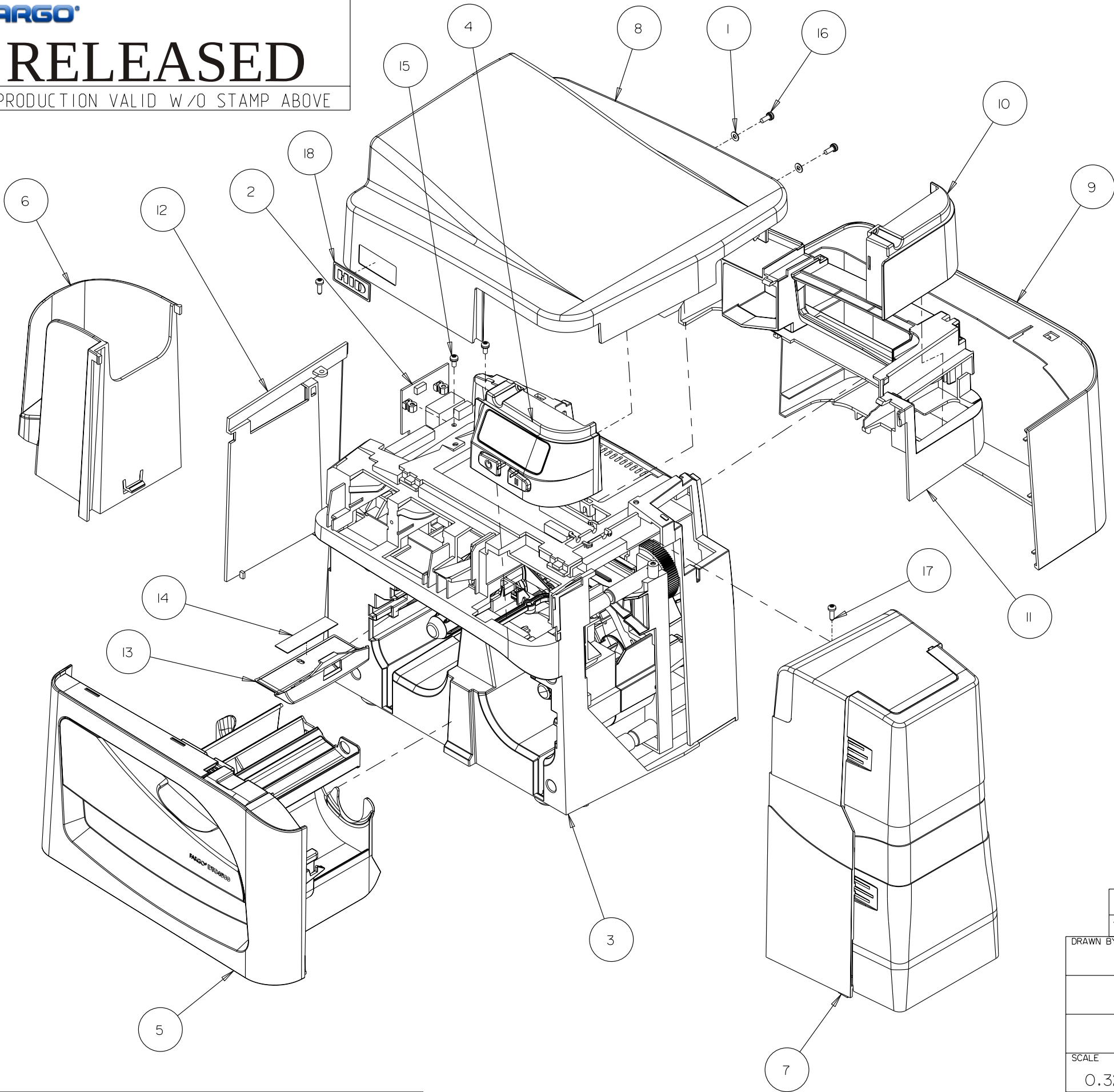
D930002-01

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D930002	D930002	ASSEM

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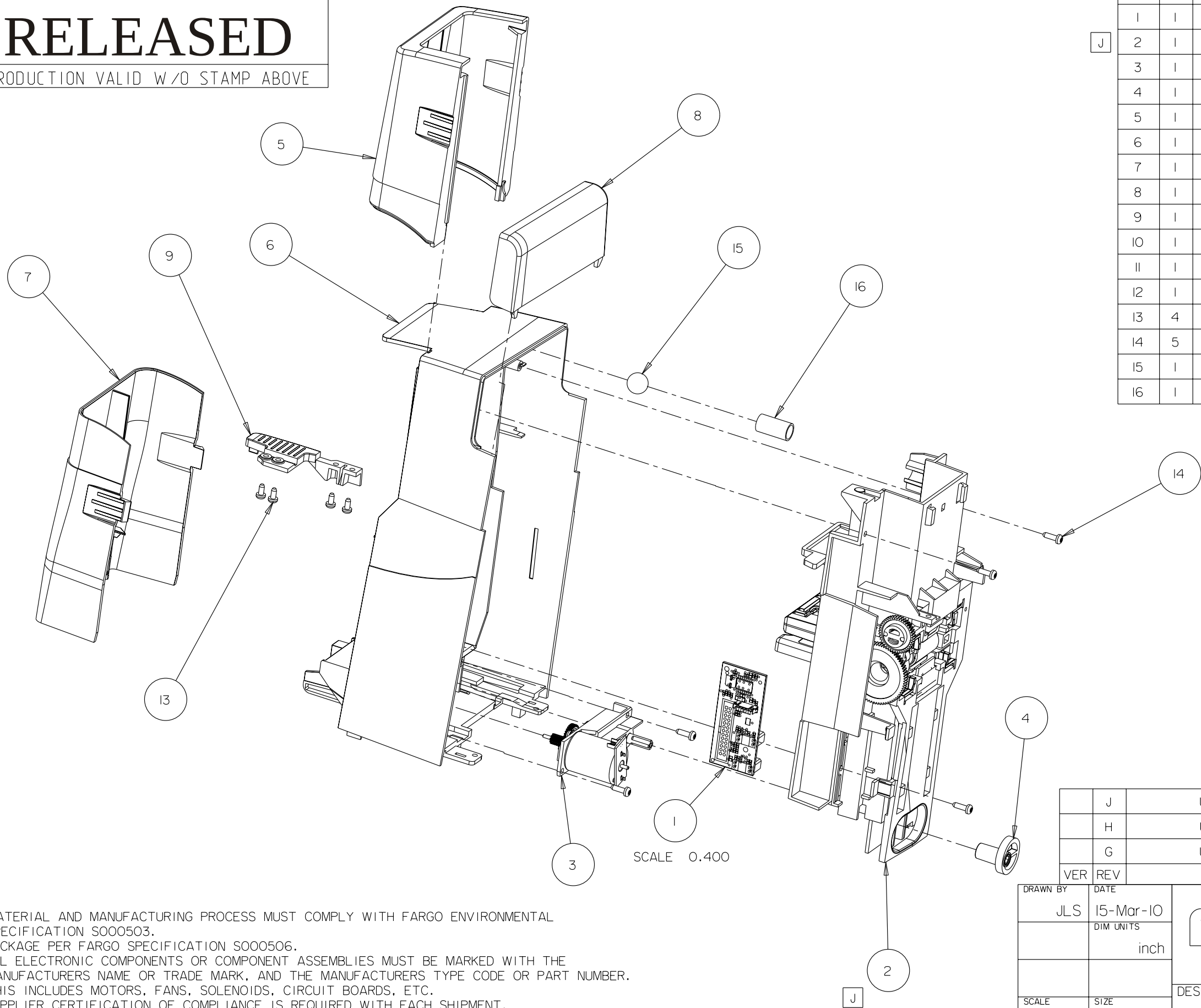
ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	2	I40040	PART	WASHER 3MM FLAT
2	1	A930510	PART	ASY PCB ETHERNET CONTROLLER
3	1	D930002-01	ASSEMBLY	ASY COMMON PRINT ENGINE 4500
4	1	D930018	ASSEMBLY	ASY-COVER-LCD/BUTTON DISPLAY
5	1	D930020	ASSEMBLY	ASY-RIBBON CARTRIDGE
6	1	D930033	ASSEMBLY	ASY OUTPUT BIN
7	1	D930039	ASSEMBLY	ASY-DUAL INPUT
8	1	D930181-01	PART	COVER-TOP
9	1	D930182-01	PART	COVER-BACK
10	1	D930189-01	PART	COVER-DISPLAY
11	1	D930280-01	PART	COVER-BACK-TOP
12	1	D930281-01	PART	COVER-OUTPUT
13	1	D930352	PART	BRACKET-RIBBON DEFLECTOR DTC4500
14	2.0	F000145	PART	TAPE VHB CLEAR .5 .020"THK
15	2	F000170	PART	SCREW-M3X6_TPH_ZP_SEM
16	2	F000171	PART	SCREW-M3X8_TPH_ZP_SEM
17	2	F000178	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
18	1	L001393	PART	BADGE - HID

	A	INITIAL RELEASE		C18109	I6-Aug-10	CJ/CJ
VER	REV	RECORD		ECO#	DATE	DRA/ENG
DRAWN BY	DATE	FARGO® Part of HID Global CONFIDENTIAL AND PROPRIETARY INFORMATION This document contains confidential and proprietary information, which may not be duplicated, published, disseminated or disclosed to unintended third party recipients (or just: 'third parties') or used for any purpose, without written permission from Fargo Electronics Inc.				
CJ	22-Jul-10					
	DIM UNITS					
	inch					
SCALE	SIZE	DESCRIPTION				
0.325	B	ASY PRINTER DTC4500				
ASSY DWG		PROJECT	ASSY PART NUMBER		ITEM NUMBER	
			D930003		D930003	

ENGINEERING USE ONLY			
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE	
D930003	D930003	ASSEM	

RELEASED

NOT PRODUCTION VALID W/O STAMP ABOVE



1. MATERIAL AND MANUFACTURING PROCESS MUST COMPLY WITH FARGO ENVIRONMENTAL SPECIFICATION S000503.
2. PACKAGE PER FARGO SPECIFICATION S000506.
3. ALL ELECTRONIC COMPONENTS OR COMPONENT ASSEMBLIES MUST BE MARKED WITH THE MANUFACTURERS NAME OR TRADE MARK, AND THE MANUFACTURERS TYPE CODE OR PART NUMBER. THIS INCLUDES MOTORS, FANS, SOLENOIDS, CIRCUIT BOARDS, ETC.
4. SUPPLIER CERTIFICATION OF COMPLIANCE IS REQUIRED WITH EACH SHIPMENT.

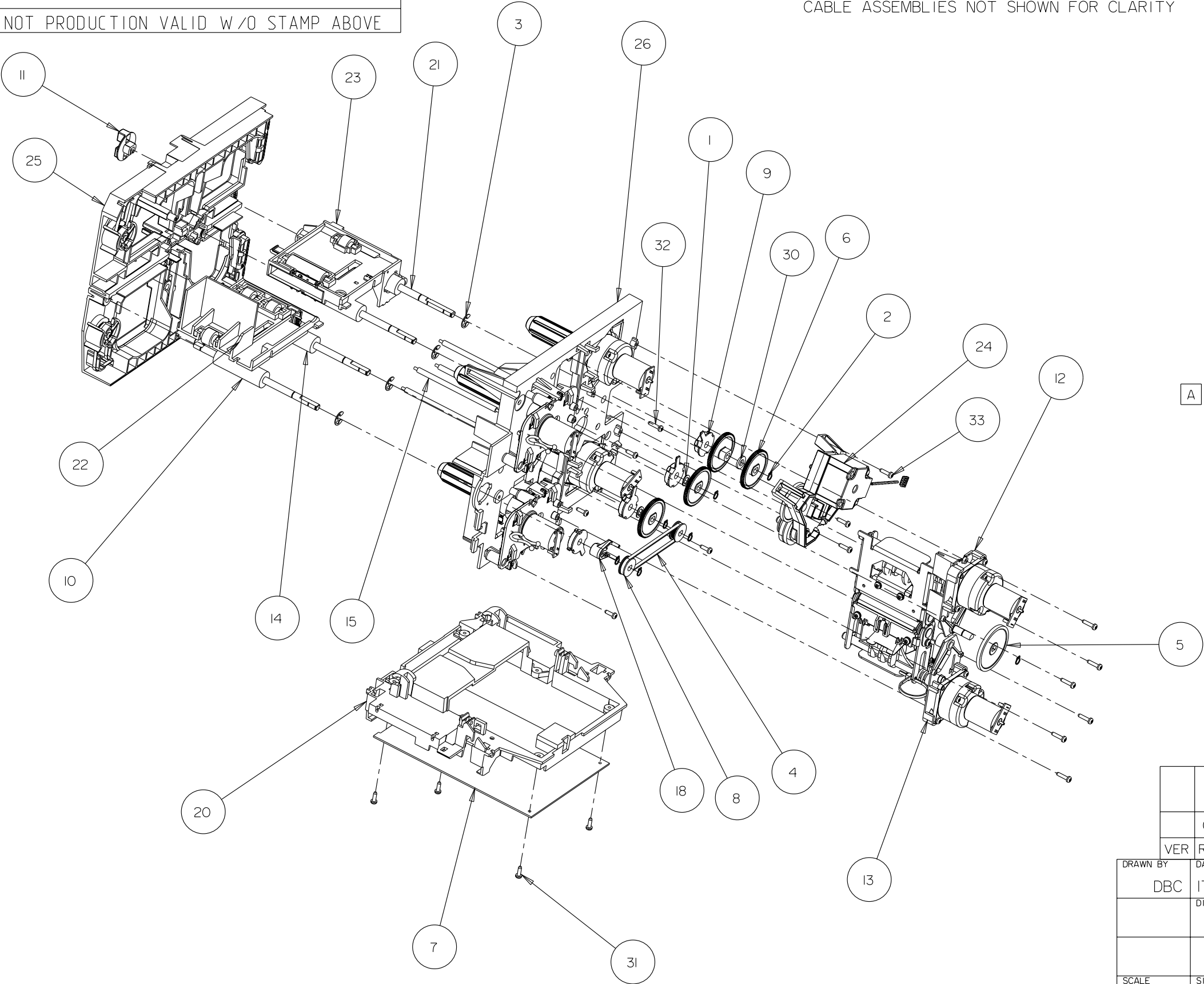
ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	1	A930504	ASSEMBLY	ASY PCB INPUT CONTROLLER
2	1	D930035	ASSEMBLY	ASY-FRAME-DUAL INPUT
3	1	D930038	ASSEMBLY	ASY-INPUT GEARS
4	1	D930174	PART	CAM- INPUT
5	1	D930199-01	PART	COVER-INPUT DUAL
6	1	D930202-01	PART	HOUSING-INPUT DUAL
7	1	D930273-01	PART	DOOR-INPUT DUAL LOWER
8	1	D930283-01	PART	COVER-INPUT CAP
9	1	D930304	PART	HANDLE DUAL HOPPER
10	1	D930312	PART	FOAM-CARD BLOCK
11	1	D930622	ASSEMBLY	ASY CBL MTR DUAL INPUT
12	1	D930623	ASSEMBLY	ASY CBL RBN INPUT
13	4	F000176	PART	SCREW-#4-20X.250_TPH_ZP_PLAS
14	5	F000178	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
15	1	F000503	PART	BALL-STEEL
16	1	F000504	PART	SPRING-COMP .420 X .875 X .035

1) CABLES NOT SHOWN FOR CLARITY
2) D930312 FOAM CARD BLOCK IS USED FOR SHIPPING ONLY AND IS NOT SHOWN

	J	UPDATE D930035 TO REV G	C18453	I5-DEC-10	DBC/ALL
	H	UPDATED D930035 TO REV F	C18358	04-Nov-10	CJ/CJ
	G	UPDATED D930038 TO REV C	C18229	07-OCT-10	ARP/ARP
VER	REV	RECORD	ECO#	DATE	DRA/ENG

DRAWN BY JLS	DATE 15-Mar-10	FARGO® Part of HID Global CONFIDENTIAL AND PROPRIETARY INFORMATION This document contains confidential and proprietary information, which may not be duplicated, published, disseminated or disclosed to unintended third party recipients (or just: "third parties") or used for any purpose, without written permission from Fargo Electronics Inc.			
	DIM UNITS inch				
SCALE 0.250	SIZE B	DESCRIPTION ASY-DUAL INPUT			
ASSY DWG		PROJECT X001800	ASSY PART NUMBER D930039	ITEM NUMBER D930039	

ENGINEERING USE ONLY		
DRAWING FILE D930039	ENGINEERING MODEL NAME D930039	MODEL TYPE ASSEM



ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	2	I3095I	PART	WASHER-SPRING.269ID.4230D.006THK
2	7	I40048	PART	RETAINING RING-EXT C .25 IN SHFT
3	4	I40062	PART	RETAINING RING-EXT E .250 IN SHFT
4	1	220082	PART	BELT-IO5 GRV I25 W MXL
5	1	8I0265	PART	GEAR-PLATEN CARD DRIVE
6	4	8I0266	PART	GEAR-CARD TRANSPORT DRIVE
7	1	A92022I	ASSEMBLY	ASY MAIN BOARD H5KL W/SOFT-START
8	2	D850I90	PART	PULLEY-MAIN
9	4	D900046	PART	SHAFT BUSHING
10	1	D9200I5	PART	ROLLER-INPUT
11	1	D9200I6	PART	KNOB- GEAR TRAIN LAM
12	1	D920022	ASSEMBLY	ASY LAM HEAD TOP
13	1	D920023	ASSEMBLY	ASY LAM HEAD BOTTOM
14	2	D920I19-0I	PART	ROLLER- FEED HIGH COF
15	4	D920I37	PART	SHAFT- LAM PEEL
16	2	D920I47	ASSEMBLY	ASY-CBL-ENC-SNR
17	2	D920I53	ASSEMBLY	ASY-CBL-HEADLIFT MOTORS
18	1	D920I68	PART	TENSIONER-BELT
19	1	D920I75	ASSEMBLY	ASY-CBL-RFID
20	1	D9202I2	PART	BRACKET-LAM PRINT ATTACH
21	1	D9202I8	PART	ROLLER-INPUT-FLIPSIDE
22	1	D9304I0	ASSEMBLY	ASY - CENTERPLATE INPUT
23	1	D9304I1-02	ASSEMBLY	ASY - CENTERPLATE EXIT DS (NEO)
24	1	D9304I3	ASSEMBLY	ASY - STEPPER DRIVE LAM
25	1	D9304I4-02	ASSEMBLY	ASY - FRONT SIDEPLATE L2
26	1	D9304I5-02	ASSEMBLY	ASY- REAR SIDEPLATE L2
27	1	D9306I9	ASSEMBLY	ASY-CBL-DS-RFID
28	1	D93062I	ASSEMBLY	ASY CBL RBN FLIP LAM
29	1	E000508	PART	FERRITE-SNAP ON
30	1	F000I56	PART	SPACER-NYLON .257 X .500 X .062
31	8	F000I78	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
32	7	F000I82	PART	SCREW-#4-20X.500_TPH_ZP_PLAS
33	3	F000463	PART	SCREW-4-20X438 TPH ZP PLAS

A

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	A	PRODUCTION RELEASE, UPDATED NAME D9302I8 WAS ROLLER-INPUT, NOW ROLLER-INPUT-FLIPSIDE	C18054	27-JUL-10	DBC/JLS
	03	ADDED DRAWING, CHANGED DESCRIPTION	C17660	17-Feb-10	DBC/JLS
VER	REV	RECORD	ECO#	DATE	DRA/ENG

DRAWN BY DBC	DATE 17-Feb-10	FARGO Part of HID Global CONFIDENTIAL AND PROPRIETARY INFORMATION This document contains confidential and proprietary information, which may not be duplicated, published, disseminated or disclosed to unintended third party recipients (or just: "third parties") or used for any purpose, without written permission from Fargo Electronics Inc.			
DIM UNITS inch					
SCALE 0.059	SIZE B	DESCRIPTION ASY LAM MECH DS			
ASSY DWG		PROJECT	ASSY PART NUMBER D930400-02	ITEM NUMBER D930400-02	

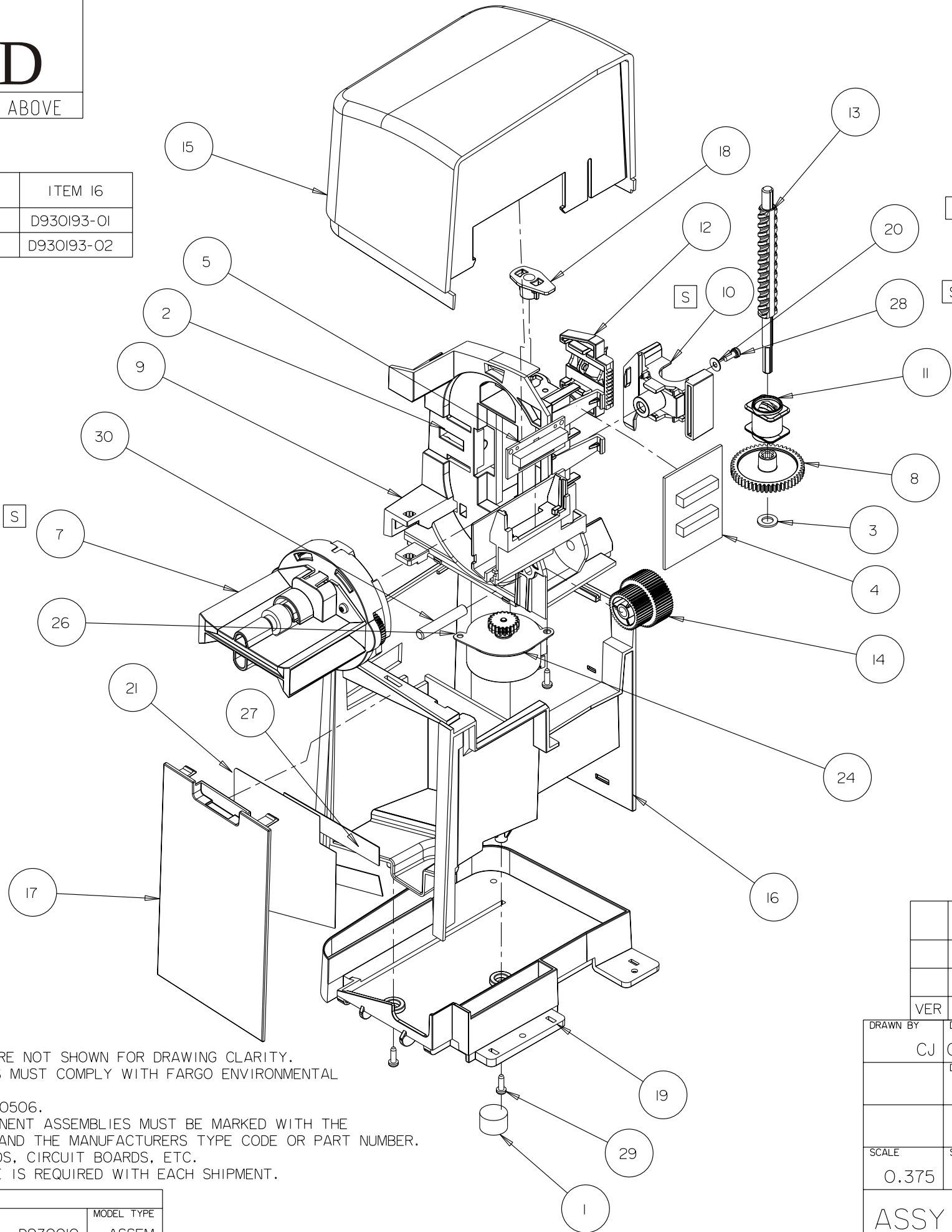
ENGINEERING USE ONLY		
DRAWING FILE D930400-02	ENGINEERING MODEL NAME D930400-02	MODEL TYPE ASSEM

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PART NUMBER	COLOR	ITEM I5	ITEM I6
D9300I0-01	BLACK	D930I92-01	D930I93-01
D9300I0-02	SILVER	D930I92-02	D930I93-02



NOTES:

1. CABLES AND ELECTRICAL COMPONENTS ARE NOT SHOWN FOR DRAWING CLARITY.
2. MATERIAL AND MANUFACTURING PROCESS MUST COMPLY WITH FARGO ENVIRONMENTAL SPECIFICATION S000503.
3. PACKAGE PER FARGO SPECIFICATION S000506.
4. ALL ELECTRONIC COMPONENTS OR COMPONENT ASSEMBLIES MUST BE MARKED WITH THE MANUFACTURERS NAME OR TRADE MARK, AND THE MANUFACTURERS TYPE CODE OR PART NUMBER. THIS INCLUDES MOTORS, FANS, SOLENOIDS, CIRCUIT BOARDS, ETC.
5. SUPPLIER CERTIFICATION OF COMPLIANCE IS REQUIRED WITH EACH SHIPMENT.

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D9300I0	D9300I0	ASSEM

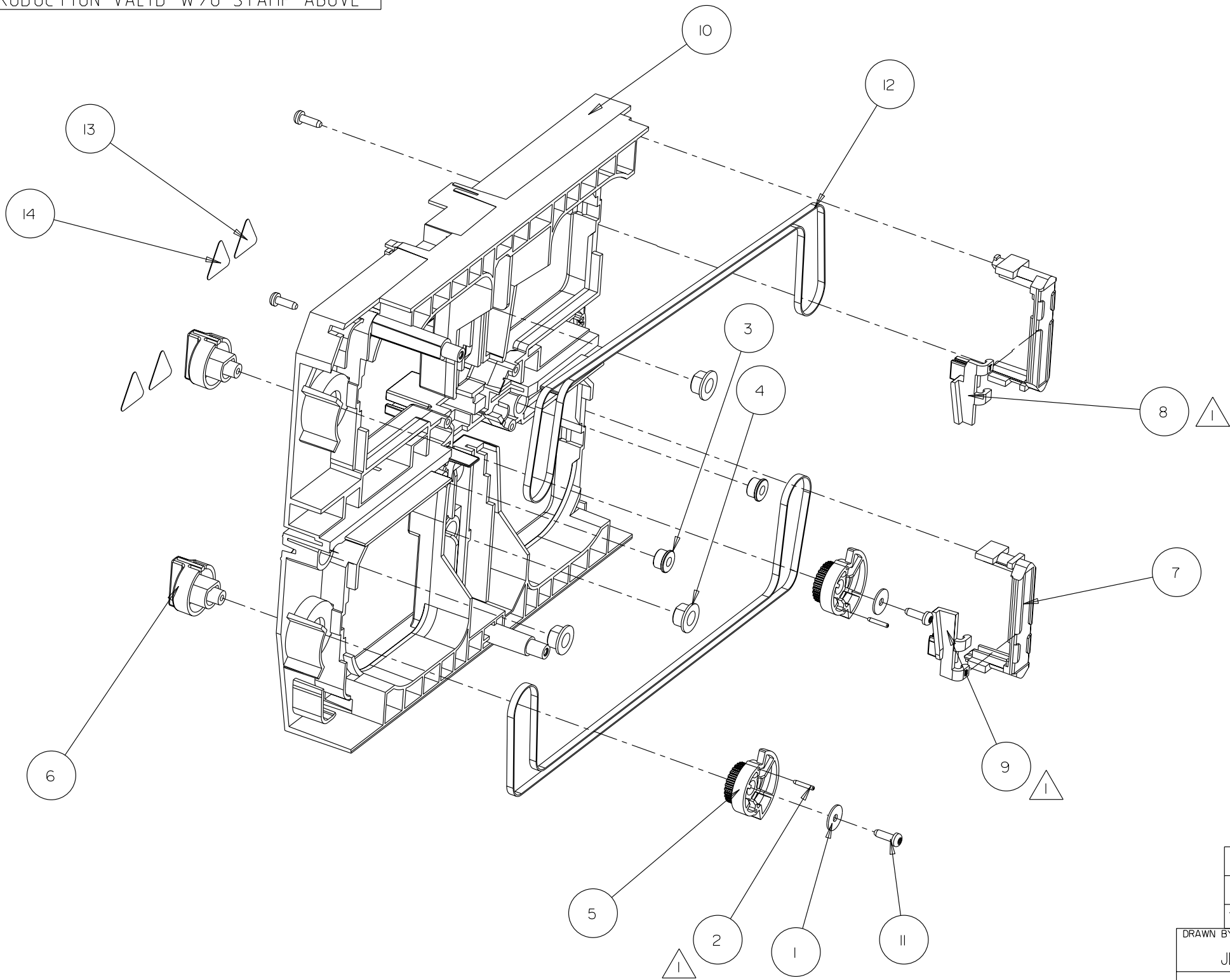
ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	1	I40024	PART	FOOT-RUBBER BUMPER .62 DIA X .4
2	2	I50I75	PART	SPRING-COMP .240 X .562 X .016
3	1	77I632	PART	WASHER - SUPP SUPPORT
4	1	A930503	PART	ASY-PCB OUTPUT CONTROLLER
5	1	A9305I2	PART	ASY-PCB FLIPPER INTERFACE
6	1	D900II3	ASSEMBLY	ASY-CBL HDLFT SNR
7	1	D9300II	ASSEMBLY	ASY-FLIPPER TABLE
8	1	D930I06	PART	GEAR 0.8 MODULE 50 TOOTH
9	1	D930I45	PART	FRAME FLIPPER SHORT
10	1	D930I50	PART	BRACKET TABLE MOUNT
11	1	D930I52	PART	NUT LEAD SCREW
12	1	D930I53	PART	BRACKET GEAR RACK FLIP
13	1	D930I55	PART	SCREW LEAD FLIP SHRT SPLT
14	1	D930I63	PART	GEAR COMBO FLIP 42T X 56T
15	1	D930I92-XX	PART	COVER FLIPPER TOP
16	1	D930I93-XX	PART	COVER FLIPPER CARD BIN
17	1	D930I94-01	PART	COVER FLIPPER DOOR
18	1	D930234	PART	BUSHING SCREW TWIST-LOCK
19	1	D930254-01	PART	COVER-FLIPPER-BASE
20	1	D930272	PART	WASHER 3.2mm X 8mm X.5mm
21	1	D93035I	PART	FLIPPER - SHIELD
22	1	D930609	ASSEMBLY	ASY-IR-SENSOR-PAIR
23	1	D9306I0	ASSEMBLY	ASY-CBL-STEPPER MOTOR
24	1	D9306II	ASSEMBLY	ASY-CBL-RIBBON-FLIPPER
25	1	E000508	PART	FERRITE-SNAP ON
26	1	E00II92	ASSEMBLY	MOTOR STEPPER 7.5 DEG NMB
27	6	F000I45	PART	"TAPE,VHB CLEAR X .5 .020"" THK"
28	1	F000I7I	PART	SCREW-M3X8_TPH_ZP_SEM
29	4	F000I78	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
30	1	F000494	PART	DOWEL PIN 6MM X 36

	S	UPDATE D930I50 TO REV E UPDATE D930I46 TO REV C	CI8253	I4-OCT-IO	DBC/JRS
	R	UPDATE D930I45 TO REV C	CI8I30	II-OCT-IO	DBC/JRS
	P	UPDATE D93035I TO REV B	CI8247	22-SEP-IO	DBC/JLS
VER	REV	RECORD	ECO#	DATE	DRA/ENG

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	DIM UNITS				
	inch				
SCALE	SIZE	DESCRIPTION			
0.375	B	ASY FLIPPER SHORT			
ASSY DWG		PROJECT	ASSY PART NUMBER	ITEM NUMBER	
			D9300I0	D9300I0	

RELEASED

NOT PRODUCTION VALID W/O STAMP ABOVE



NOTES:



2X PINS I30952 ARE PRESSED INTO D920I38 USING FIXTURE TL2097. SLIDE WEDGES D930205 AND D930206 ALIGNMENTS ARE CRITICAL AND WILL BE SET IN THE SAME FIXTURE

ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
I	2	I30876	PART	WASHER .I25 ID .437 OD .03 THK
2	2	I30952	PART	DOWEL PIN .062 X .375
3	2	7602I9	PART	BEARING - RBN ROLLER
4	3	760343	PART	BEARING - DRIVE ROLLER
5	2	D920I38	PART	PULLEY-LAM CART ADJUSTMENT
6	2	D920I39-0I	PART	KNOB-LAM CARTRIDGE ADJUSTMENT
7	2	D920204	PART	SLIDE GUIDE
8	I	D920205	PART	Slide - Wedge - Top
9	I	D920206	PART	Slide - Wedge - Bottom
IO	I	D920208	ASSEMBLY	SIDEPLATE - FRONT
II	4	F000I78	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
I2	2	F000427	PART	BELT-3IO GRV .I25 W .080MXL
I3	2	L000822	PART	LABEL-WARNING-CRUSH
I4	2	L000953	PART	LABEL-WARNING-HOT

	A	PRODUCTION RELEASE	CI7860	2I-APR-IO	JLS/JLS
	02	ADDED DRAWING	CI7558	26-JAN-IO	JLS/JLS
VER	REV	RECORD	ECO#	DATE	DRA/ENG

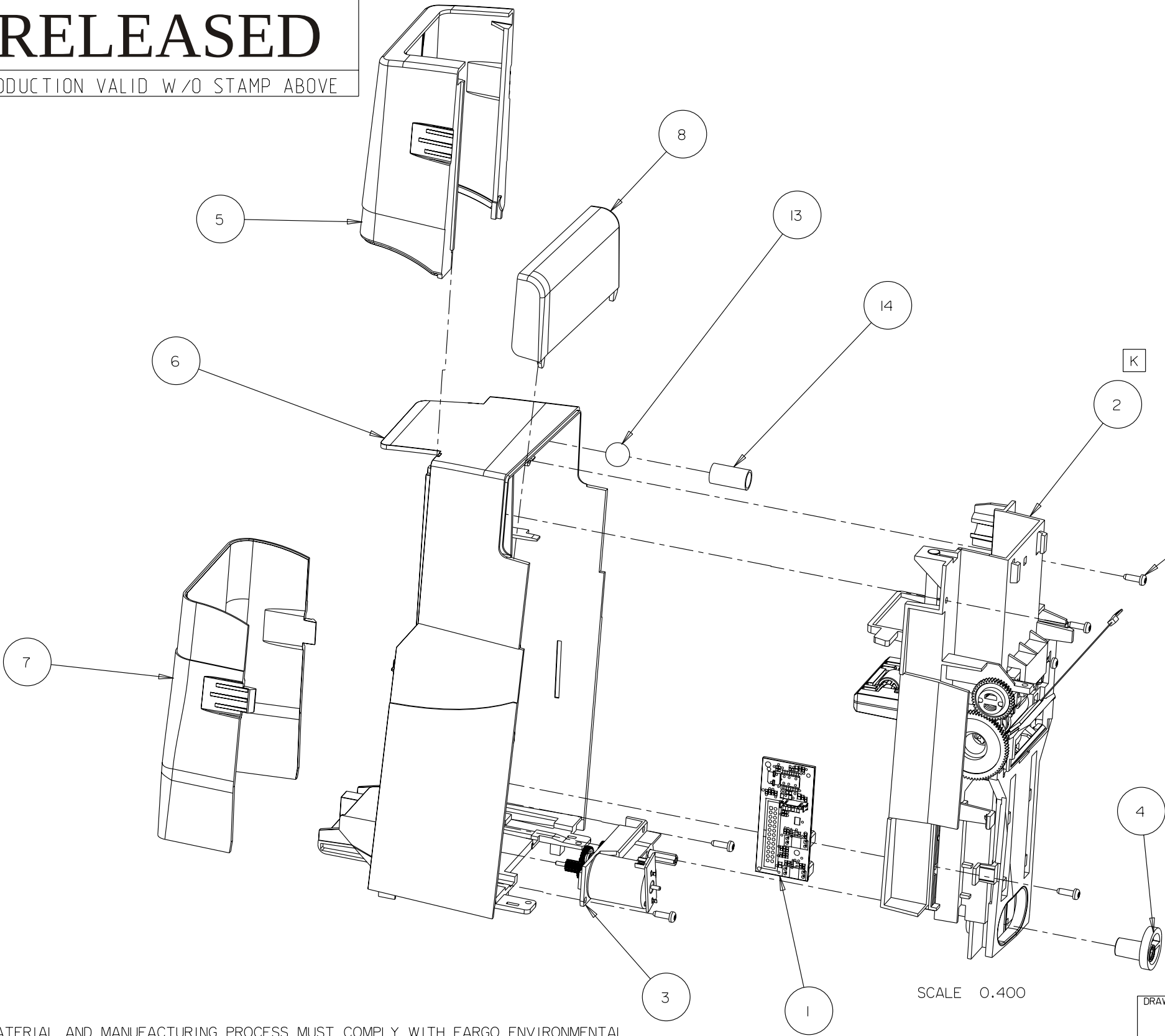
DRAWN BY JLS	DATE I9-Jan-IO	FARGO® Part of HID Global CONFIDENTIAL AND PROPRIETARY INFORMATION This document contains confidential and proprietary information, which may not be duplicated, published, disseminated or disclosed to unintended third party recipients (or just: "third parties") or used for any purpose, without written permission from Fargo Electronics Inc.			
	DIM UNITS inch				
SCALE 0.500	SIZE B	DESCRIPTION ASY - FRONT SIDEPLATE L2			
ASSY DWG		PROJECT NEO	ASSY PART NUMBER D9304I4-02	ITEM NUMBER D9304I4-02	

ENGINEERING USE ONLY		
DRAWING FILE D9304I4-02	ENGINEERING MODEL NAME D9304I4-02	MODEL TYPE ASSEM

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1. MATERIAL AND MANUFACTURING PROCESS MUST COMPLY WITH FARGO ENVIRONMENTAL SPECIFICATION S000503.
2. PACKAGE PER FARGO SPECIFICATION S000506.
3. ALL ELECTRONIC COMPONENTS OR COMPONENT ASSEMBLIES MUST BE MARKED WITH THE MANUFACTURERS NAME OR TRADE MARK, AND THE MANUFACTURERS TYPE CODE OR PART NUMBER. THIS INCLUDES MOTORS, FANS, SOLENOIDS, CIRCUIT BOARDS, ETC.
4. SUPPLIER CERTIFICATION OF COMPLIANCE IS REQUIRED WITH EACH SHIPMENT.

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D930040	D930040	ASSEM

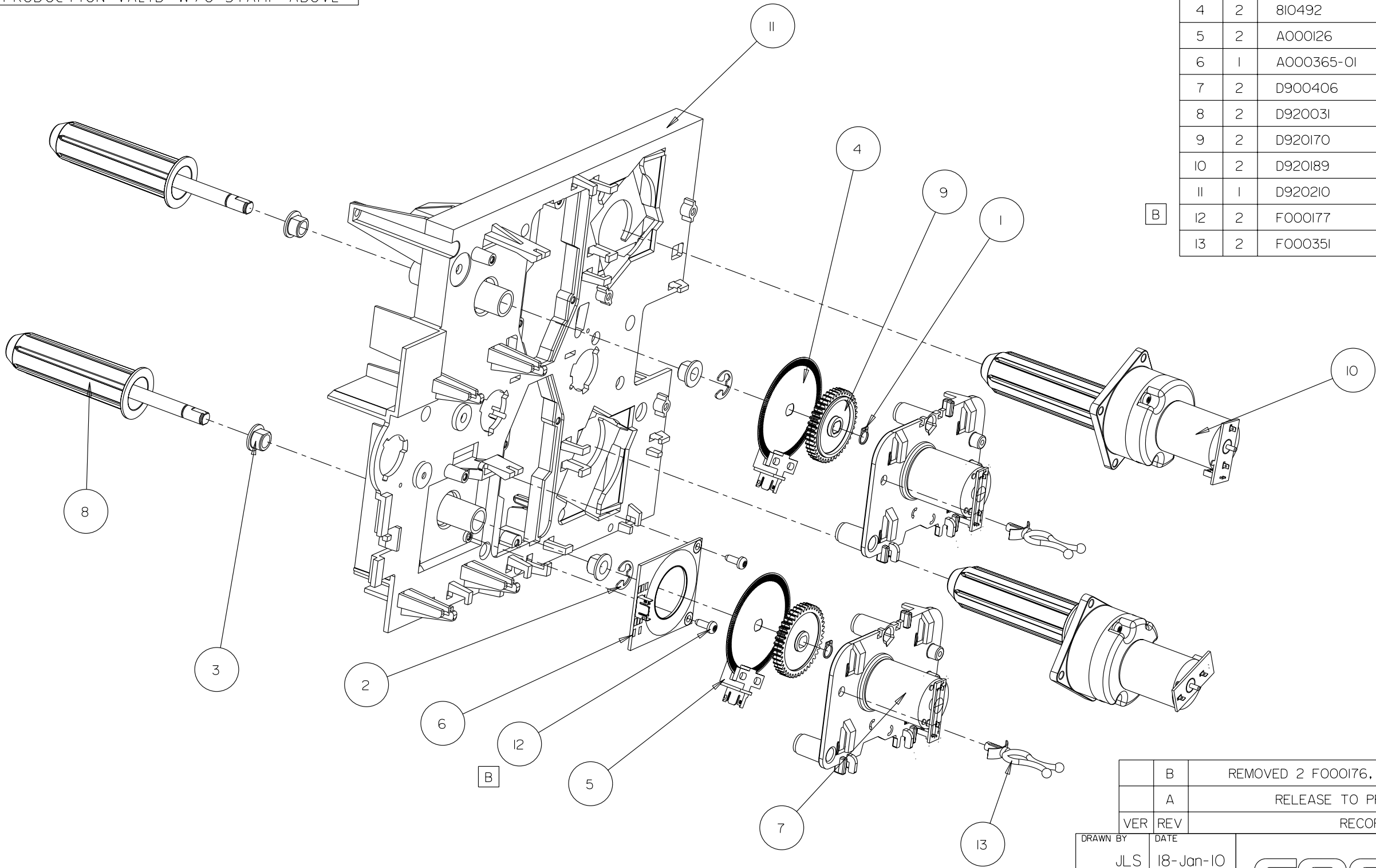
ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	1	A930504	ASSEMBLY	ASY PCB INPUT CONTROLLER
2	1	D930036	ASSEMBLY	ASY-FRAME-INPUT/OUTPUT
3	1	D930038	ASSEMBLY	ASY-INPUT GEARS
4	1	D930174	PART	CAM- INPUT
5	1	D930199-01	PART	COVER-INPUT DUAL
6	1	D930202-01	PART	HOUSING-INPUT DUAL
7	1	D930273-02	PART	DOOR-INPUT IN-OUT LOWER
8	1	D930283-01	PART	COVER-INPUT CAP
9	1	D930312	PART	FOAM-CARD BLOCK
10	1	D930623	ASSEMBLY	ASY CBL RBN INPUT
11	1	D930624	ASSEMBLY	ASY CBL MTR INPUT/OUTPUT
12	5	F000178	PART	SCREW-#4-20X.375_LTPH_ZP_PLAS
13	1	F000503	PART	BALL-STEEL
14	1	F000504	PART	SPRING-COMP .420 X .875 X .035

1) CABLES NOT SHOWN FOR CLARITY
2) D930312 FOAM CARD BLOCK IS USED FOR SHIPPING ONLY AND IS NOT SHOWN

	K	UPDATE D930036 TO REV H	C18453	I5-DEC-10	DBC/ALL
	J	UPDATE D930036 TO REV G	C18358	04-Nov-10	CJ/CJ
	H	UPDATED D930038 TO REV C	C18229	07-OCT-10	ARP/ARP
VER	REV	RECORD	ECO#	DATE	DRA/ENG

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JLS	I5-Mar-10				
	DIM UNITS	DESCRIPTION			
	inch				
SCALE	SIZE	ASY-INPUT/OUTPUT			
0.250	B				
ASSY DWG		PROJECT	ASSY PART NUMBER	ITEM NUMBER	
		X001800	D930040	D930040	

NOT PRODUCTION VALID W/O STAMP ABOVE



ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	2	I40048	PART	RETAINING RING-EXT C .25 IN SHFT
2	2	I40062	PART	RETAINING RING-EXT E .250 IN SHFT
3	4	760343	PART	BEARING - DRIVE ROLLER
4	2	8I0492	PART	ENCODER WHEEL
5	2	A000I26	ASSEMBLY	ASY-PCB S3 SENSOR-2
6	1	A000365-OI	ASSEMBLY	ASY PCB RFID ANTENNA
7	2	D900406	ASSEMBLY	ASY REWIND MTR
8	2	D92003I	ASSEMBLY	ASY- SUPPLY SHAFT
9	2	D920I70	PART	GEAR 42T SPUR
10	2	D920I89	ASSEMBLY	ASY MTR LAM TAKEUP
11	1	D9202I0	ASSEMBLY	SIDEPLATE - REAR
12	2	F000I77	PART	SCREW-#4-20X.3I3_TPH_ZP_PLAS
13	2	F00035I	PART	CABLE TIE TWIST LOCK

	B	REMOVED 2 F000I76, ADDED 2 F000I77	CI8290	08-OCT-IO	DBC/JLS
	A	RELEASE TO PRODUCTION.	CI7860	2I-APR-IO	JLS/JLS
VER	REV	RECORD	ECO#	DATE	DRA/ENG

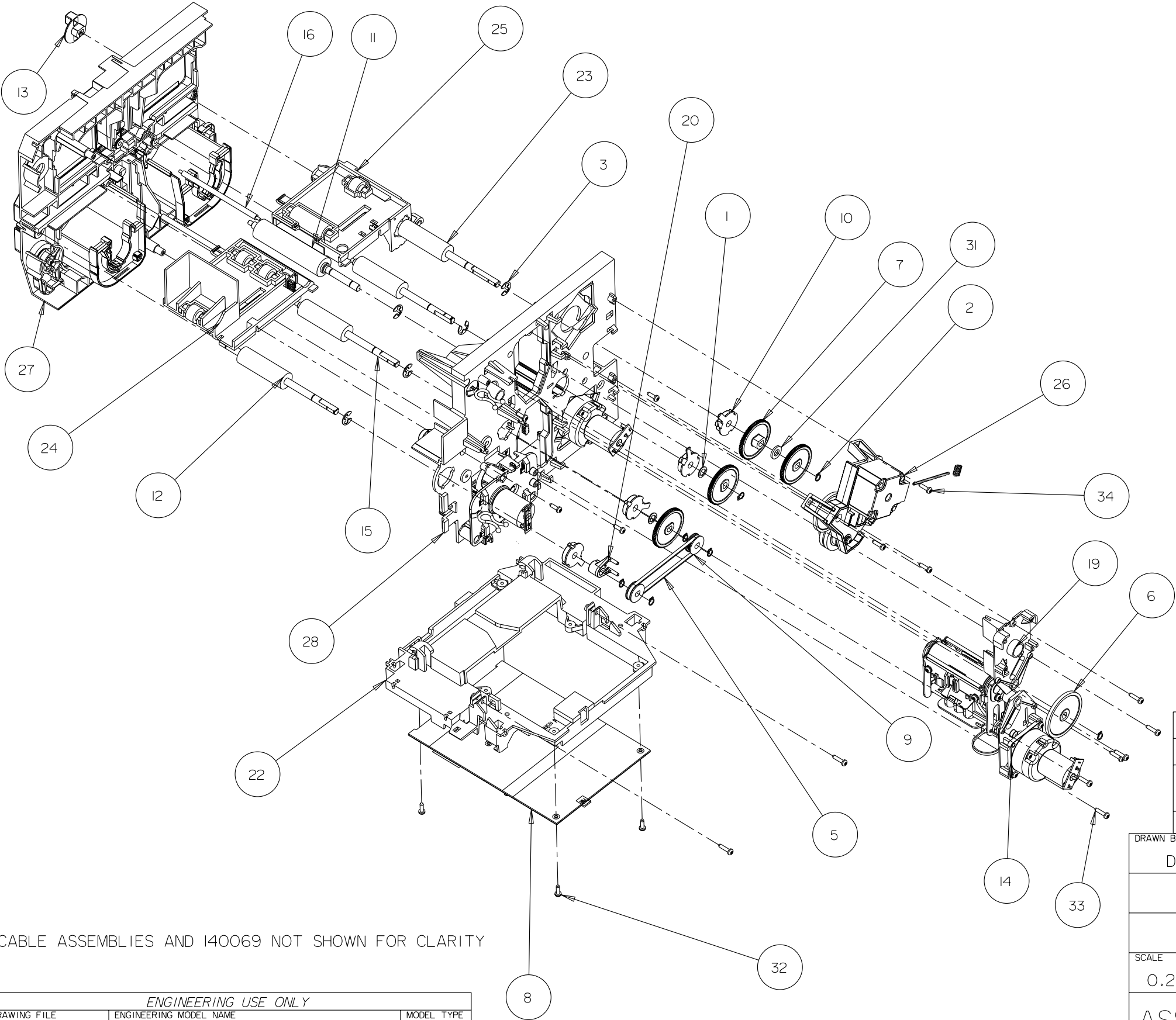
DRAWN BY	DATE	FARGO® Part of HID Global			
JLS	I8-Jan-IO				
	DIM UNITS				
	inch				
SCALE	SIZE				
0.500	B				
ASSY DWG		DESCRIPTION			
		PROJECT			
		ASSY PART NUMBER			
		D9304I5-02			
		ITEM NUMBER			
		D9304I5-02			

ENGINEERING USE ONLY					
DRAWING FILE	ENGINEERING MODEL NAME			MODEL TYPE	
D9304I5-02	D9304I5-02			ASSEM	

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RELEASED

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CABLE ASSEMBLIES AND I40069 NOT SHOWN FOR CLARITY

ENGINEERING USE ONLY		
DRAWING FILE	ENGINEERING MODEL NAME	MODEL TYPE
D930400-01	D930400-01	ASSEM

ITEM	QTY	ITEM NUMBER	TYPE	DESCRIPTION
1	2	I3095I	PART	WASHER-SPRING.269ID.4230D.006THK
2	7	I40048	PART	RETAINING RING-EXT C .25 IN SHFT
3	5	I40062	PART	RETAINING RING-EXT E .250 IN SHFT
4	1	I40069	PART	TIE WRAP 4.00"L X 0.10"W
5	1	220082	PART	BELT-105 GRV 125 W MXL
6	1	810265	PART	GEAR-PLATEN CARD DRIVE
7	4	810266	PART	GEAR-CARD TRANSPORT DRIVE
8	1	A92022I-10	ASSEMBLY	ASY MAIN BOARD 4500 LAM
9	2	D850190	PART	PULLEY-MAIN
10	4	D900046	PART	SHAFT BUSHING
11	1	D920014	PART	ROLLER PLATEN
12	1	D920015	PART	ROLLER-INPUT
13	1	D920016	PART	KNOB- GEAR TRAIN LAM
14	1	D920023	ASSEMBLY	ASY LAM HEAD BOTTOM
15	2	D920119-01	PART	ROLLER- FEED HIGH COF
16	2	D920137	PART	SHAFT- LAM PEEL
17	1	D920147	ASSEMBLY	ASY-CBL-ENC-SNR
18	1	D920153	ASSEMBLY	ASY-CBL-HEADLIFT MOTORS
19	1	D920163	PART	BRACKET-HEADLIFT MOTOR-LAM
20	1	D920168	PART	TENSIONER-BELT
21	1	D920175	ASSEMBLY	ASY-CBL-RFID
22	1	D920212	PART	BRACKET-LAM PRINT ATTACH
23	1	D920218	PART	ROLLER-INPUT-FLIPSIDE
24	1	D930410	ASSEMBLY	ASY - CENTERPLATE INPUT
25	1	D930411-01	ASSEMBLY	ASY - CENTERPLATE EXIT LI
26	1	D930413	ASSEMBLY	ASY - STEPPER DRIVE LAM
27	1	D930414-01	ASSEMBLY	ASY - FRONT SIDEPLATE LI
28	1	D930415-01	ASSEMBLY	ASY- REAR SIDEPLATE LI
29	1	D930621	ASSEMBLY	ASY CBL RBN FLIP LAM
30	1	E000508	PART	FERRITE-SNAP ON
31	1	F000156	PART	SPACER-NYLON .257 X .500 X .062
32	8	F000178	PART	SCREW-#4-20X.375_TPH_ZP_PLAS
33	8	F000182	PART	SCREW-#4-20X.500_TPH_ZP_PLAS
34	3	F000463	PART	SCREW-4-20X438 TPH ZP PLAS

	C	REMOVED A92022I, ADDED A92022I-10	C18345	04-NOV-10	DBC/JLS
	B	ADDED (1) F000182, ADDED (1) I40069	C18290	21-OCT-10	DBC/JLS
	A	PRODUCTION RELEASE, UPDATE NAME D930218 WAS ROLLER-INPUT, NOW ROLLER-INPUT-FLIPSIDE	C18054	27-JUL-10	DBC/JLS
VER	REV	RECORD	ECO#	DATE	DRA/ENG

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DBC	02-Feb-10				
	DIM UNITS				
	inch				
SCALE	SIZE				
0.250	B				
ASSY DWG		PROJECT	ASSY PART NUMBER	DESCRIPTION	
			D930400-01	ASY LAM LI	
				ITEM NUMBER	
				D930400-01	